

KODIAK MANAGEMENT AREA  
SALMON ESCAPEMENT AND CATCH SAMPLING RESULTS, 2003



By

M. B. Foster

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## TABLE OF CONTENTS

	<u>Page</u>
LIST OF TABLES .....	i
LIST OF FIGURES.....	vi
ABSTRACT .....	1
INTRODUCTION.....	2
METHODS.....	3
Adult Salmon Escapement and Catch Estimates.....	3
Adult Salmon Escapement and Catch Sampling.....	3
Sockeye Salmon Run Reconstruction Estimates.....	5
Spiridon Lake .....	5
Karluk Lake.....	5
Early Run.....	5
Late Run .....	5
Ayakulik River (Red Lake) .....	5
Frazer Lake (Dog Salmon Creek) .....	5
South Olga Lakes (Upper Station) .....	6
Early Run.....	6
Late Run .....	6
RESULTS .....	6
Adult Sockeye Salmon Escapement Abundance, Age, Sex, and Size Data.....	6
Commercial Salmon Catch Abundance and Age Data .....	7
Sockeye Salmon Run Reconstruction Estimates.....	8
Spiridon Lake .....	8
Karluk Lake.....	8
Early Run.....	8
Late Run .....	8
Ayakulik River (Red Lake) .....	8
Frazer Lake (Dog Salmon Creek) .....	8
South Olga Lakes (Upper Station) .....	9
Early Run.....	9
Late Run .....	9
LITERATURE CITED .....	10
TABLES .....	13
FIGURES.....	95

## LIST OF TABLES

<u>Table</u>		<u>Page</u>
1. Sampling weeks and corresponding calendar dates, 2003 .....		13
2. Kodiak Management Area sockeye salmon escapement sampling schedule, 2003 .....		14
3. Kodiak Management Area sockeye salmon catch sampling schedule, 2003 .....		15
4. Daily and cumulative sockeye salmon escapement counted through weirs by system (major systems), Kodiak Management Area, 2003.....		16
5. Daily and cumulative sockeye salmon escapement counted through weirs by system (minor systems), Kodiak Management Area, 2003 .....		21
6. Estimated age composition of sockeye salmon escapements by system, Kodiak Management Area, 2003. ....		26
7. Estimated age composition of Pauls Lake sockeye salmon escapement by week, 2003 .....		28
8. Length composition of Pauls Lake sockeye salmon escapement samples by age and sex, 2003.....		29
9. Estimated sex composition of Pauls Lake sockeye salmon escapement by week, 2003 .....		30
10. Estimated age composition of Afognak Lake (Litnik) sockeye salmon escapement by week, 2003 .....		31
11. Length composition of Afognak Lake (Litnik) sockeye salmon escapement samples by age and sex, 2003. ....		32
12. Estimated sex composition of Afognak Lake (Litnik) sockeye salmon escapement by week, 2003 .....		33
13. Estimated age composition of Little River Lake sockeye salmon escapement by week, 2003 .....		34
14. Length composition of Little River Lake sockeye salmon escapement samples by age and sex, 2003.....		35
15. Estimated sex composition of Little River Lake sockeye salmon escapement by week, 2003 .....		36

## LIST OF TABLES (Cont.)

<u>Table</u>		<u>Page</u>
16. Estimated age composition of Karluk Lake early-run sockeye salmon escapement by week, 2003 .....	37	
17. Length composition of Karluk Lake early-run sockeye salmon escapement samples by age and sex, 2003.....	38	
18. Estimated sex composition of Karluk Lake early-run sockeye salmon escapement by week, 2003 .....	39	
19. Estimated age composition of Karluk Lake late-run sockeye salmon escapement by week, 2003 .....	40	
20. Length composition of Karluk Lake late-run sockeye salmon escapement samples by age and sex, 2003.....	41	
21. Estimated sex composition of Karluk Lake late-run sockeye salmon escapement by week, 2003 .....	42	
22. Estimated age composition of Ayakulik River (Red L.) sockeye salmon escapement by week, 2003 .....	43	
23. Length composition of Ayakulik River (Red L.) sockeye salmon escapement samples by age and sex, 2003.....	44	
24. Estimated sex composition of Ayakulik River (Red L.) sockeye salmon escapement by week, 2003 .....	45	
25. Estimated age composition of South Olga Lakes (Upper Station) early-run sockeye salmon escapement by week, 2003 .....	46	
26. Length composition of South Olga Lakes (Upper Station) early-run sockeye salmon escapement samples by age and sex, 2003. ....	47	
27. Estimated sex composition of South Olga Lakes (Upper Station) early-run sockeye salmon escapement by week, 2003 .....	48	
28. Estimated age composition of South Olga Lakes (Upper Station) late-run sockeye salmon escapement by week, 2003.....	49	
29. Length composition of South Olga Lakes (Upper Station) late-run sockeye salmon escapement samples by age and sex, 2003 .....	50	

## LIST OF TABLES (Cont.)

<u>Table</u>	<u>Page</u>
30. Estimated sex composition of South Olga Lakes (Upper Station) late-run sockeye salmon escapement by week, 2003 .....	51
31. Estimated age composition of Frazer Lake sockeye salmon escapement by week, 2003 .....	52
32. Length composition of Frazer Lake sockeye salmon escapement samples by age and sex, 2003 .....	53
33. Estimated sex composition of Frazer Lake sockeye salmon escapement by week, 2003 .....	54
34. Estimated age composition of Saltery Lake sockeye salmon escapement by week, 2003 .....	55
35. Length composition of Saltery Lake sockeye salmon escapement samples by age and sex, 2003 .....	56
36. Estimated sex composition of Saltery Lake sockeye salmon escapement by week, 2003 .....	57
37. Estimated age composition of Akalura Lake sockeye salmon escapement by week, 2003 .....	58
38. Length composition of Akalura Lake sockeye salmon escapement samples by age and sex, 2003 .....	59
39a. Age composition of Buskin Lake sockeye salmon escapement samples, 2003 .....	60
39b. Age composition of Lake Louise sockeye salmon escapement samples, 2003 .....	60
40. Kodiak Management Area commercial salmon harvest by species and year, 1970 through 2003 .....	61
41. Commercial salmon catch numbers by species, district, and section, Kodiak Management Area, 2003.....	62
42. Estimated age composition of commercial sockeye salmon catches by sample area, Kodiak Management Area, 2003.....	65
43. Estimated age composition of Foul Bay Terminal Harvest Area (251-41) sockeye salmon catch by week, 2003 .....	66

## LIST OF TABLES (Cont.)

<u>Table</u>		<u>Page</u>
44.	Length composition of Foul Bay Terminal Harvest Area (251-41) sockeye salmon catch samples by age and sex, 2003 .....	67
45.	Estimated sex composition of Foul Bay Terminal Harvest Area (251-41) sockeye salmon catch by week, 2003 .....	68
46.	Estimated age composition of Waterfall Bay Terminal Harvest Area (251-84) sockeye salmon catch by week, 2003 .....	69
47.	Length composition of Waterfall Bay Terminal Harvest Area (251-84) sockeye salmon catch samples by age and sex, 2003 .....	70
48.	Estimated sex composition of Waterfall Bay Terminal Harvest Area (251-84) sockeye salmon catch by week, 2003 .....	71
49.	Estimated age composition of Southwest Afognak Section (251-10, 20) commercial sockeye salmon catch by week, 2003 .....	72
50.	Estimated age composition of Uganik-Viekoda Bays (253-11, 12, 13, 14, 31, 32, 33, 35) commercial sockeye salmon catch by week, 2003 .....	73
51.	Estimated age composition of Uyak Bay (254-10, 20, 30, 40) commercial sockeye salmon catch by week, 2003 .....	74
52.	Estimated age composition of Spiridon Lake (Telrod Cove) Terminal Harvest Area sockeye salmon catch by week, 2003 .....	75
53.	Length composition of Spiridon Lake (Telrod Cove) Terminal Harvest Area sockeye salmon catch samples by age and sex, 2003 .....	76
54.	Estimated sex composition of Spiridon Lake (Telrod Cove) Terminal Harvest Area sockeye salmon catch by week, 2003 .....	77
55.	Estimated age composition of Inner and Outer Karluk Sections (255-10, 20) commercial sockeye salmon catch, week 23 to 27, 2003 .....	78
56.	Estimated age composition of Cape Alitak and Humpy-Deadman Sections (257-10, 20, 50, 60, 70) commercial sockeye salmon catch by week, 2003 .....	79
57.	Estimated age composition of Olga Bay, Alitak Bay, and Moser Bay Sections (257-40, 41, 43) commercial sockeye salmon catch by week, 2003 .....	80
58.	Age composition of Alitak Bay (Chip Cove) test fishery sockeye salmon catch samples by week, 2003 .....	81
59.	Spiridon Lake sockeye salmon estimated catch by area and estimated total run by age class, 2003 .....	82

## LIST OF TABLES (Cont.)

<u>Table</u>		<u>Page</u>
60. Karluk Lake early-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.....		83
61. Karluk Lake early-run sockeye salmon brood table showing estimated returns from parent escapements by age class. ....		84
62. Karluk Lake late-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.....		85
63. Karluk Lake late-run sockeye salmon brood table showing estimated returns from parent escapements by age class. ....		86
64. Ayakulik River (Red L.) sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.....		87
65. Ayakulik River (Red L.) sockeye salmon brood table showing estimated returns from parent escapements by age class.....		88
66. Frazer Lake (Dog Salmon Creek) sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.....		89
67. Frazer Lake (Dog Salmon Creek) sockeye salmon brood table showing estimated returns from parent escapements by age class .....		90
68. South Olga Lakes (Upper Station) early-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.....		91
69. South Olga Lakes (Upper Station) early-run sockeye salmon brood table showing estimated returns from parent escapements by age class. ....		92
70. South Olga Lakes (Upper Station) late-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.....		93
71. South Olga Lakes (Upper Station) late-run sockeye salmon brood table showing estimated returns from parent escapements by age class. ....		94

## LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1. Kodiak Management Area commercial salmon fishing districts and processing facility locations, 2003.....	95
2. Salmon escapement and terminal harvest sampling locations in the Kodiak Management Area, 2003.....	96
3. Afognak District commercial salmon fishing sections and statistical areas, 2003.....	97
4. Northwest Kodiak District commercial salmon fishing sections and statistical areas, 2003.....	98
5. Southwest Kodiak District commercial salmon fishing sections and statistical areas, 2003.....	99
6. Alitak Bay District commercial salmon fishing sections and statistical areas, 2003 .....	100
7. Eastside Kodiak District commercial salmon fishing sections and statistical areas, 2003 .....	101
8. Northeast Kodiak District commercial salmon fishing sections and statistical areas, 2003.....	102
9. Mainland District commercial salmon fishing sections and statistical areas, 2003 .....	103
10. Spiridon Lake sockeye salmon catch (run) estimates, 1994-2003, and the recent 5-year average estimated run (1998-2002) .....	104
11. Karluk Lake early-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002) .....	105
12. Karluk Lake late-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002) .....	106
13. Ayakulik River (Red L.) sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002) .....	107
14. Frazer Lake sockeye salmon escapement (Dog Salmon weir counts), catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).....	108

## **LIST OF FIGURES (Cont.)**

<u>Figure</u>	<u>Page</u>
15. South Olga Lakes (Upper Station) early-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002) .....	109
16. South Olga Lakes (Upper Station) late-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).....	110

## ABSTRACT

Roughly 2.0 million sockeye salmon *Oncorhynchus nerka* escaped through salmon counting weirs in the Kodiak Management Area (KMA) during 2003. Adult sockeye salmon were sampled for age, length, and sex determination on river systems in the KMA. Approximately 11,000 scale samples were used to represent a combined escapement of over 1.8 million sockeye salmon or about 90% of the total escapement counted through weirs. The overall sampled sockeye salmon escapement was predominantly age 2.2 (52%), 2.3 (12%) and 2.1 (9%), but primary age classes varied by system.

The 2003 commercial salmon harvest for the KMA totaled 19.6 million fish, just under the recent 5-year average of 20.7 million fish. The commercial harvest consisted of approximately 19 thousand chinook *O. tshawytscha*, 4.1 million sockeye, 350 thousand coho *O. kisutch*, 14.1 million pink *O. gorbuscha*, and 1.2 million chum *O. keta* salmon. A total of 26,000 sockeye salmon were sampled for age determination from a variety of catch areas throughout the KMA. Of these samples, 22,000 scales were used to represent a combined harvest of approximately 3.2 million sockeye salmon. The overall sampled sockeye salmon catch was predominantly age 2.2 (43%), 1.2 (18%), and 1.3 (18%) fish; however, primary age classes varied by section and district.

## INTRODUCTION

The Kodiak Management Area (KMA) encompasses western Gulf of Alaska waters surrounding the entire Kodiak Archipelago and that portion of the Alaska Peninsula draining into Shelikof Strait from Cape Douglas to Kilokak Rocks (Figure 1). The archipelago and Alaska Peninsula portions of the management area are each about 241 km in length, while Shelikof Strait averages 48 km in width.

There are about 800 anadromous salmon streams located throughout the KMA (ADF&G 1993). These systems combined support five commercially important salmon species: chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, coho *O. kisutch*, pink *O. gorbuscha*, and chum *O. keta* salmon. About 39 of these systems support various sizes of sockeye salmon runs (Wadle 2004).

Weirs provide the primary mode of enumeration for virtually all chinook salmon and a majority of the sockeye salmon escapements into area streams (Figure 2; Kuriscak *in press*). Remaining streams are monitored by aerial and foot surveys for indexing pink, chum, and coho salmon escapements (Wadle 2004).

The KMA is composed of seven commercial salmon fishing districts and 56 sections (Figures 1 and 3-9). The emphasis of the salmon management program is to achieve escapement goals while harvesting surplus production of local stocks in an orderly fashion (Brennan et al. 2003). Five species of salmon are commercially harvested within the KMA, all of which have established escapement goals. The “targeted” escapement goals for KMA salmon are: 11 thousand to 18 thousand chinook, 1.3 million to 1.8 million sockeye, 1.0 million to 3.0 million pink (even year), 55 thousand to 94 thousand coho, and 273 thousand to 819 thousand chum salmon (Nelson and Lloyd 2001). Directed commercial fisheries occur on sockeye, pink, chum, and coho salmon; chinook salmon are not targeted. To open and close the fishery inseason, managers employ qualitative analyses of run timing, catch per unit effort (CPUE), species composition of the catch, regulatory management plans, aerial survey estimates, test fisheries, and weir escapement counts (Wadle 2004).

The Alaska Board of Fisheries (BOF) has approved area salmon management plans for the Cape Igvak Section of the Mainland District, Alitak Bay District, North Shelikof Strait, Westside Kodiak, Eastside Afognak, Crescent Lake, Spiridon Lake, Eastside Kodiak, Mainland District, and North Afognak/Shuyak Island (ADF&G 2002). The intent of these plans is to maintain traditional commercial fishing opportunities and subsequent harvest allocations, stock conservation, and provide for a high quality salmon product.

Age, length, and sex composition of KMA sockeye salmon escapements have been collected under the direction of various researchers and agencies since the mid 1920s. The Alaska Department of Fish and Game (ADF&G), Division of Commercial Fisheries (CF), initiated an expanded catch and escapement sampling program focusing on sockeye salmon in 1985. The purpose of this program was to collect representative age, length, and sex data from major sockeye salmon systems as well as representative age data from selected commercial sockeye salmon catches.

These data continue to expand the KMA salmon baseline database. These samples are used to reconstruct numerous sockeye salmon runs, employing age marker analysis and scale pattern identification methods to estimate specific stock contributions to commercial fisheries in the KMA (Swanton 1992; Barrett and Nelson 1994; Barrett and Nelson 1995; Nelson and Swanton 1996; Nelson and Swanton 1997; Nelson 1999; Sagalkin 1999; Baer and Honnold 2002; Witteveen et al. *in press*). Accordingly, these samples provide the foundation for preseason run forecasting and escapement goal evaluation.

This report summarizes the results of the 2003 KMA salmon escapement and catch sampling program. This report is a compilation of data, with limited interpretation and discussion of the reported data.

## METHODS

### ***Adult Salmon Escapement and Catch Estimates***

Salmon escapement enumeration was accomplished via weir counts at 10 systems throughout the KMA in 2003. Major systems enumerated by ADF&G, CF personnel included: Karluk, Ayakulik (Red L.), Frazer (Dog Salmon Creek), and South Olga Lakes (Upper Station). A weir was located at the mouth of Dog Salmon Creek and at the outlet to Frazer Lake (Frazer fish pass), within the same sockeye salmon system, to facilitate timely management, maintenance, and operation of the fish pass. Minor systems with weirs operated by ADF&G, CF personnel included: Pauls, Afognak (Litnik), Saltery, and Akalura Lakes. ADF&G, Division of Sportfish monitored salmon escapement through a weir on the Buskin River. U.S. Fish and Wildlife Service (FWS) employees (through the Kodiak National Wildlife Refuge) monitored escapement through the Little River weir and participated in escapement enumeration at Akalura weir.

Escapements at weirs were manually enumerated by field technicians and biologists using hand tally-counters as fish migrated upstream through aluminum panel gates. These counts were treated as a census with minor adjustments made to the total counts only when high water events washed out weirs or after weir removal at season's end. When escapements were not directly counted, they were estimated by foot surveys conducted by field personnel.

KMA salmon catch numbers for the 2003 season were obtained from summary reports of individual harvest receipts (fish tickets). The fish ticket database was edited by Kodiak area salmon management biologists prior to summary reports being generated on 12 December 2003.

### ***Adult Salmon Escapement and Catch Sampling***

Sockeye salmon escapements were sampled weekly for age (scales), length, and sex (ALS), at Karluk, Ayakulik, Upper Station, and Frazer (Figure 2; ADF&G 2003). Sampling weeks and associated calendar dates are presented in Table 1. Fish were collected using a live-box trap attached to the upstream side of the weir (ADF&G 2003). Ideally, three samples of 80 fish were

collected weekly on alternating days to meet the required weekly sample size of 240 fish. Within-week adjustments were made in the schedule when necessary to obtain the full sample. The weekly escapement sample size enabled all age classes to be simultaneously estimated at  $\alpha=0.10$  within  $\pm 6.5\%$  of the true proportions (Thompson 1987). Minor salmon systems were sampled with reduced intensity following the sampling schedule listed in Table 2. Pauls Lake sockeye salmon escapement samples were collected using a beach seine at the confluence of Laura Creek and Pauls Lake. Additionally, 240 fish per week were sampled for ALS from the Spiridon Lake Terminal Harvest Area (SLTHA) to represent the Spiridon Lake sockeye salmon run.

Designated commercial sockeye salmon catches were sampled weekly for age during commercial fisheries (ADF&G 2003, Table 3). The catch sample size of 400 fish per week enabled all age classes to be simultaneously estimated within  $\pm 6.5\%$  of the true proportion with 95% confidence (Thompson 1987).

Catch samples were collected at processing facilities located in the Port of Kodiak, Lazy Bay (Alitak), and Larsen Bay (Figure 1). The catch sampling crew obtained fish ticket information before collecting samples to determine if the fish were exclusively harvested from the section designated to be sampled. If fish ticket data were not available, the sampling crew interviewed the processing facility dock foreman or tender operator. Once fish ticket information became available, the origin of the catch was confirmed.

All scales, when possible, were collected from the preferred area of each fish following procedures outlined in INPFC (1963). Scales were mounted on scale “gum” cards and impressions were made on cellulose acetate (Clutter and Whitesel 1956). Fish ages were assigned by examining scale impressions for annual growth increments using a microfiche reader fitted with a 48X lens following designation criteria established by Mosher (1968). Ages were recorded on sampling forms using European notation (Koo 1962) where a decimal separates the number of winters spent in fresh water (after emergence) from the number of winters spent in salt water. The total age of the fish includes an additional year representing the time between egg deposition and emergence of fry. Length measurements were taken from mid eye to tail fork (METF) in mm and sex was determined from external morphological characteristics. All data were recorded on standard age-weight-length (AWL) data forms. AWL forms were digitally scanned and edited for errors.

Age, length, and sex statistics were computed for each escapement sampled. Age and sex composition estimates were interpolated daily between sampling events and summarized weekly when targeted sampling goals were achieved. When limited samples were obtained, the age composition was estimated to reflect the sampling period only. Length composition data were summarized by age and sex.

When weekly targeted catch sample sizes were obtained, catch-at-age by area and day was estimated by multiplying the daily age composition of a particular sample by the daily catch from the corresponding catch area. Age composition of the catch from days not sampled was estimated using linear interpolation between sampling events. Descriptions of component programs used to compute age, length, and sex composition summaries can be found in Blackburn (2002).

## **Sockeye Salmon Run Reconstruction Estimates**

### **Spiridon Lake**

In lieu of formal stock separation analyses in 1998 through 2003, the 1994-1997 average estimated proportion of harvest occurring in the SLTHA was used to calculate the number of Spiridon Lake sockeye salmon harvested in the SW Afognak Section and NW Kodiak District combined (Nelson 1999, Witteveen et al. *in press*). This catch estimate was combined with the SLTHA sockeye salmon catch to estimate the 2003 Spiridon Lake run. This enhanced run was fully utilized; therefore, there was no escapement. The age composition of the SLTHA commercial catch samples was applied to the total Spiridon Lake run to estimate the run by age class.

### **Karluk Lake**

A natural age marker (age 3.) was used to estimate the number by age class of Karluk Lake bound sockeye salmon harvested in the westside Kodiak commercial fishery (Witteveen et al. *in press*). Early and late-run numbers were estimated separately.

**Early Run.** The number of Karluk Lake bound sockeye salmon harvested in Uganik, Uyak, and Inner and Outer Karluk Sections through 15 July was estimated following the methods described in Barrett and Nelson (1995). The total Karluk Lake early-run estimate was calculated by summing the escapement (through 21 July) and assigned catch numbers by age class. Estimates by age class were assigned to the parent year (brood year) escapement and return-per-spawner (R/S) estimates were calculated by dividing annual returns by respective parent year escapements.

**Late Run.** The number of Karluk Lake bound sockeye salmon harvested in Uganik, Uyak, and Inner and Outer Karluk Sections post 15 July were estimated following the methods described in Barrett and Nelson (1995). The total Karluk late-run estimate was determined by summing the escapement (post 21 July) and assigned catch numbers by age class. Estimates by age class were assigned to the parent year (brood year) escapement and R/S estimates were calculated by dividing annual returns by respective parent year escapements.

### **Ayakulik River (Red Lake)**

The Ayakulik sockeye salmon run reconstruction was accomplished by combining the Ayakulik River weir sockeye salmon escapement and 90% of the Inner and Outer Ayakulik Sections sockeye salmon harvest (Witteveen et al. *in Press*). Estimates by age class were assigned to the parent year (brood year) escapement and R/S estimates were calculated by dividing annual returns by respective parent year escapements.

### **Frazer Lake (Dog Salmon Creek)**

The majority of sockeye salmon bound for Frazer Lake are assumed to be harvested in the Alitak Bay District (ABD). Run timing of Frazer Lake (Dog Salmon Creek) sockeye coincides with the early sockeye salmon run to Upper Station (Sagalkin 1999). Based on previous studies (Tyler et al. 1986; Swanton 1992), 80% of the harvest in Cape Alitak and Humpy-Deadman Sections and 95%

of the harvest in the Alitak, Moser, and Olga Bay Sections were assumed to be of either Frazer Lake or Upper Station origin (Witteveen et al. *in press*). The natural age marker (0.) at Upper Station was used to apportion the harvest in these areas. This catch estimate for Frazer Lake, by age class, was added to escapement counted at the Dog Salmon Creek weir. Total run estimates by age class were assigned to the parent year (brood year) escapement and R/S estimates were calculated by dividing annual returns by respective parent year escapements.

### **South Olga Lakes (Upper Station)**

The South Olga Lakes system (commonly referred to as Upper Station) is known to have an early and late-run sockeye salmon component (based on run timing) and each component was estimated separately.

**Early Run.** Upper Station early-run sockeye salmon are generally harvested along with the Frazer Lake run in the ABD during June and early July. The natural age marker (0.) at Upper Station was used to apportion the harvest in these areas through 11 July as described above for the Frazer Lake run reconstruction (Witteveen et al. *in press*). Total run estimates by age class were assigned to the parent year (brood year) escapement and R/S estimates were calculated by dividing annual returns by respective parent year escapements.

**Late Run.** The number of Upper Station late-run sockeye salmon harvested in the ABD (post 11 July) were estimated using a natural age marker (age 0.) in a similar fashion to the early run (Witteveen et al. *in press*). The total Upper Station late-run estimate was determined by summing escapement counts post 15 July from the Upper Station weir and assigned catch numbers by age class. Estimates by age class were assigned to the parent year (brood year) escapement and R/S estimates were calculated by dividing annual returns by respective parent year escapements.

## **RESULTS**

### ***Adult Sockeye Salmon Escapement Abundance, Age, Sex, and Size Data***

A total of 2,035,189 sockeye salmon were estimated as escapement through 11 weirs in the KMA during 2003 (Tables 4 and 5), excluding the duplicated counts at Frazer fish pass.

A total of 10,850 of the escapement scale samples were ageable, representing a combined escapement of 1,836,506 sockeye salmon or about 90% of the total escapement counted through weirs (Table 6). It was not possible to represent 100% of the runs because escapement occurred prior to and after sampling events. In its entirety, the escapement was predominantly 5- (57%), 6- (19%) and 4- (17%) year-old fish. Primary age classes varied by system and area but overall, major age classes were 2.2 (52%), 2.3 (12%) and 2.1 (9%).

On Afognak Island, age 1.2, 1.3, and 2.2 sockeye salmon were predominant in the Pauls Lake escapement while 2.3, 2.2, and 1.2 were the dominant age classes for Litnik. On the westside of Kodiak Island, Little River Lake was mostly age 2.2 (76%) as it was in the Karluk Lake early

(64%) and late run (57%) escapements. Other strong age classes at Karluk Lake were age 2.3 and 3.2. The Ayakulik River, on the southwest end of Kodiak Island was dominated by age 2.2 (49%) and 1.2 (27%) sockeye salmon. Within the Alitak Bay District, age classes 2.2 and 1.2 were dominant at Upper Station (both early and late runs) and age 2.2 (74%) was dominant in the Akalura sockeye salmon escapement. The age 2.2 component (27%) was also strong at Frazer Lake, but the run was mostly composed of 1-ocean jacks (70%). On the eastside of Kodiak Island, Saltery Lake sockeye escapement was dominated by age 1.3 (51%) and age 2.3 (22%) fish, while the Buskin River sockeye escapement had roughly equal components of age 1.3, 2.2, 2.3, and 1.2 fish.

KMA sockeye salmon escapement length measurements ranged from 240–694 mm and the sex percentages ranged from 56% female and 44% male at Pauls Lake to 19% female and 81% male at Frazer Lake. Individual age, length, and sex composition summaries by escapement area are found in Tables 7 through 39.

### ***Commercial Salmon Catch Abundance and Age Data***

The 2003 commercial salmon harvest in the KMA totaled 19,643,337 fish consisting of 18,603 chinook, 4,053,847 sockeye, 351,767 coho, 14,067,235 pink, and 1,151,855 chum salmon (Tables 40 and 41). The 2003 overall salmon harvest was less than the recent five-year average of 20.7 million fish while the sockeye salmon harvest was greater than the recent five-year average of 3.1 million. The majority of the commercial sockeye salmon catch occurred within the NW Kodiak District (59%) with the next largest contribution occurring within the SW Kodiak District (14%; Table 41).

During the 2003 season, a total of 25,869 harvested sockeye salmon were sampled from which 22,874 salmon scales were utilized to represent commercial harvest from a variety of catch areas throughout the KMA and the ADF&G test fishery in Alitak Bay. These samples were utilized to represent a combined harvest of approximately 3.2 million fish, or about 80% of the commercial sockeye harvest (Table 42). The overall sockeye salmon catch was predominantly age 2.2 (43%), 1.3 (18%), and 1.2 (18%) fish; however, primary age classes varied by section and district. The Foul Bay, Waterfall Bay, and Spirdon Bay Terminal Harvest Area catches were predominantly age 1.2 and 1.3 fish. Southwest Afognak and Uganik-Viekoda Bays commercial sockeye catch had strong components of both age 2.2 and age 1.3 fish. Uyak Bay and Inner and Outer Karluk Sections were predominantly age 2.2 fish. Alitak Bay commercial sockeye catch was primarily age 2.2 (43%) with strong components of both age 1.2 and age 1.3; while the inside gillnet areas of Moser and Olga Bays were predominantly age 2.2 (62%) and 1.2 (21%). The majority of the Alitak Bay test fishery samples were age 2.2 (54%). Individual age composition summaries by catch are found in Tables 43 through 58.

## *Sockeye Salmon Run Reconstruction Estimates*

### **Spiridon Lake**

A total of 259,714 sockeye salmon were commercially harvested in the SLTHA during 2003 (Table 59). An average of 41% (ranging from 33% to 45%) of Spiridon Lake bound sockeye salmon were harvested in the SLTHA from 1994–1997 (Nelson 1999). Based on this proportion, an estimated total of 378,986 Spiridon Lake sockeye salmon were harvested in the SW Afognak Section and NW Kodiak District (including the SLTHA) combined. About 46% (295,961 fish) of the total estimated Spiridon Lake run were age 1.2 and 27% (171,920 fish) were classified as age 1.3. The 2003 estimated Spiridon Lake run of 638,700 sockeye salmon was above the estimated 5-year (1998–2002) average run of 303,958 sockeye salmon (Figure 10).

### **Karluk Lake**

**Early Run.** The 2003 Karluk Lake early sockeye salmon run estimate of 824,617 was predominantly composed of age 2.2 fish (64%; Table 60). This run was greater than the 2002 estimated run (623,880), and greater than the recent 10-year average (1993–2002) estimated run of 571,077 fish (Figure 11). The 1985–1994 Karluk early-run sockeye salmon escapements have produced an estimated average return of 472,286 fish (range: 241,483–682,826) with an average R/S estimate of 1.7 (Table 61).

**Late Run.** The Karluk Lake late sockeye salmon run was estimated to be 1,592,340 fish in 2003 (Table 62). Age 2.2 fish were predominant (58%) followed by age 2.3 (17%) and age 3.2 (15%). The estimated 2003 run was greater than the 2002 run of 866,019, and above the recent 10-year average estimated run of 722,895 fish (Figure 12). The 1986–1995 Karluk Lake late-run sockeye salmon escapements have produced an estimated average return of 809,520 fish (range: 332,669–1,783,933) with an average R/S estimate of 1.6 (Table 63).

### **Ayakulik River (Red Lake)**

The 2003 estimated Ayakulik sockeye salmon run totaled 197,982 fish, with age 2.2 (49%) and 1.2 (27%) fish accounting for the majority of the run (Table 64). The 2003 estimated Ayakulik run was slightly lower than 2002 run of 235,667, well below the recent 10-year average (1993–2002) estimated run of 731,989 fish (Figure 13) and the lowest run since 1983. The 1986–1995 Ayakulik sockeye salmon escapements have produced an estimated average return of 918,338 fish (range: 325,535–1,730,578; Table 65) with an average R/S of 2.7.

### **Frazer Lake (Dog Salmon Creek)**

The 2003 Frazer Lake sockeye salmon run estimate of 313,914 (Table 66) was predominantly composed of 1-ocean (60%; jacks) and age 2.2 (28%) fish. The 2003 run was greater than the 2002 estimated run (110,226), but below the recent 10-year average (1993–2002) estimated run of 534,292 fish (Figure 14). Frazer Lake sockeye salmon escapements from 1987–1996 have produced an estimated average return of 554,346 fish (range: 251,259–1,375,543) with an average R/S estimate of 3.2 (Table 67).

## **South Olga Lakes (Upper Station)**

**Early Run.** The 2003 Upper Station early sockeye salmon run estimate was 100,389, with age 2.2 fish accounting for 46% of the run while age 1.2 accounted for 28% of the run (Table 68). This estimated run was substantially larger than the 2002 run (36,802) but slightly under the recent 10-year average (1993–2002) estimated run of 121,370 fish (Figure 15). The 1987–1996 Upper Station early sockeye salmon escapements have produced an estimated average return of 123,036 fish (range: 47,038–294,021; Table 69) with an average R/S of 2.6.

**Late Run.** The Upper Station sockeye salmon late run estimate of 412,739 fish was predominantly composed of age 2.2 fish (53%; Table 70). The 2003 estimated run was much larger than the 2002 estimated run (159,716) but similar to the recent 10-year average (1993–2002) estimated run of 444,409 fish (Figure 16). Upper Station late-run salmon escapements from 1987–1996 have produced an estimated average return of 488,022 fish (range: 162,877–1,084,640) with an average R/S estimate of 2.3 (Table 71).

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Table 1. Sampling weeks and corresponding calendar dates, 2003.

Week	Calendar Dates	Week	Calendar Dates
10	1-Mar - 7-Mar	28	5-Jul - 11-Jul
11	8-Mar - 14-Mar	29	12-Jul - 18-Jul
12	15-Mar - 21-Mar	30	19-Jul - 25-Jul
13	22-Mar - 28-Mar	31	26-Jul - 1-Aug
14	29-Mar - 4-Apr	32	2-Aug - 8-Aug
15	5-Apr - 11-Apr	33	9-Aug - 15-Aug
16	12-Apr - 18-Apr	34	16-Aug - 22-Aug
17	19-Apr - 25-Apr	35	23-Aug - 29-Aug
18	26-Apr - 2-May	36	30-Aug - 5-Sep
19	3-May - 9-May	37	6-Sep - 12-Sep
20	10-May - 16-May	38	13-Sep - 19-Sep
21	17-May - 23-May	39	20-Sep - 26-Sep
22	24-May - 30-May	40	27-Sep - 3-Oct
23	31-May - 6-Jun	41	4-Oct - 10-Oct
24	7-Jun - 13-Jun	42	11-Oct - 17-Oct
25	14-Jun - 20-Jun	43	18-Oct - 24-Oct
26	21-Jun - 27-Jun	44	25-Oct - 31-Oct
27	28-Jun - 4-Jul	45	1-Nov - 7-Nov

Table 2. Kodiak Management Area sockeye salmon escapement sampling schedule, 2003.

System Sample Location	Supervision	Statistical Area	Sampling Frequency	Date Starting	Date Ending	Sample Size
<i>Major Systems</i>						
Spiridon Lake THA <sup>a</sup>	S. Schrof	254-50	daily	1-Jul	31-Aug	240 (weekly total)
Karluk River weir	J. Wadle	255-10-101	3 times per week	1-Jun	30-Sep	240 (weekly total)
Ayakulik River weir	D. Gretsch	256-15-201	3 times per week	1-Jun	1-Aug	240 (weekly total)
Upper Station weir	D. Gretsch	257-30-304	3 times per week	1-Jun	30-Sep	240 (weekly total)
Frazer Lake fishpass	N. Sagalkin	257-40-403	3 times per week	15-Jun	30-Aug	240 (weekly total)
<i>Minor Systems</i>						
Foul Bay THA <sup>a</sup>	R. Baer	251-41	Run-dependent	5-Jun	1-Jul	600 (season total)
Pauls Lake weir	R. Baer	251-83-831	Run-dependent	6-Jun	3-Jul	600 (season total)
Waterfall Bay THA <sup>a</sup>	R. Baer	251-84	Run-dependent	5-Jun	1-Jul	600 (season total)
Little Kitoi fishpass <sup>b</sup>	KRAA	252-32-323	Run-dependent	1-Jun	15-Aug	600 (season total)
Afognak (Litnik) Weir	J. Wadle	252-34-342	Run-dependent	1-Jun	20-Jul	400 (season total)
Little River weir <sup>c</sup>	KNWR	253-11-115	Run-dependent	1-Jun	31-Jul	600 (season total)
Akalura Creek weir	N. Sagalkin	257-31-302	Run-dependent	5-Jun	15-Sep	400 (season total)
Buskin River weir <sup>d</sup>	D. Tracy	259-21-211	3 times per week	20-May	15-Aug	653 (season total)
Saltery Creek weir	J. Wadle	259-41-415	Run-dependent	7-Jul	20-Jul	600 (season total)

<sup>a</sup> Terminal Harvest Area : terminal catch sampling was utilized to represent the run.

<sup>b</sup> Little Kitoi fish pass was operated by Kodiak Regional Aquaculture Assoc. (ADF&G liason is R. Baer).

<sup>c</sup> Little River Weir was operated by the Kodiak National Wildlife Refuge.

<sup>d</sup> Buskin River weir was operated by ADF&G Division of Sport Fisheries. Escapement sampling is supplemented with subsistence harvest sampling.

Table 3. Kodiak Management Area sockeye salmon catch sampling schedule, 2003.

District	Geographic Area	Statistical Area	Primary Sampling Site	Crew Leader	Sample		
					Frequency	Dates	Size
<b>Afognak District</b>							
NW Afognak Section	251-30 - 251-50	Kodiak	Thomas	weekly	7/6 - 7/25	400	
Waterfall Bay THA	251-84	Waterfall Bay	Swanson	run dependent	6/5 - 7/1	600 <sup>a</sup>	
Foul Bay THA	251-41	Foul Bay	Tomko	run dependent	6/5 - 7/1	600 <sup>a</sup>	
SW Afognak Section	251-10 - 251-20	Kodiak	Thomas	weekly	6/5 - 9/5	400	
Malina Bay	251-20	Malina Bay	Brockman	weekly	6/5-6/30	400	
Kitoi Bay	252-32	Kitoi Bay	Aro	weekly	6/1-8/1	400	
<b>NW Kodiak District</b>							
Uganik Bay	253-11 - 253-35	Kodiak	Thomas	weekly	6/5 - 9/5	400	
Uyak Bay	254-10 - 254-40	Larsen Bay	Thomas	weekly	6/5- 9/5	400	
Spiridon THA/Telrod Cove	254-50	Telrod Cove	Watchers	daily	7/15 - 9/15	240 <sup>b</sup>	
<b>SW Kodiak District</b>							
Inner/Outer Karluk Section	255-10 - 255-20	Larsen Bay	Thomas	weekly	6/5 - 9/5	400	
Sturgeon Section	256-40	Kodiak	Thomas	weekly	6/23 - 8/1	400	
Halibut/Gurney Bay	256-25 - 256-30	Kodiak	Thomas	weekly	6/23 - 8/1	400	
Inner/Outer Ayaklik Section	256-10 - 256-20	Kodiak	Thomas	weekly	6/5 - 8/1	400	
<b>Alitak Bay District</b>							
Cape Alitak/Humpy Deadman	257-10,20 257-50-70	Lazy Bay	Sikes	weekly	6/5 - 8/31	600	
Moser/Olga Bay	257-40 - 257-43	Kodiak	Thomas	weekly	6/5 - 8/31	600	

<sup>a</sup> Waterfall Bay and Foul Bay terminal harvest areas collected 600 samples total, frequency depending on harvest magnitude.

<sup>b</sup> Spiridon THA collected 240 fish per week (consistent with escapement sampling).

Table 4. Daily and cumulative sockeye salmon escapement counted through weirs by system (major systems), Kodiak Management Area, 2003.

Date	System (weir)									
	Karluk <sup>a</sup>		Ayakulik <sup>b</sup>		Upper Station <sup>c</sup>		Dog Salmon Creek <sup>d</sup>		Frazer fish pass <sup>e</sup>	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
05/20/03	0	0								
05/21/03	0	0								
05/22/03	0	0								
05/23/03	11	11								
05/24/03	2	13								
05/25/03	1	14	0	0	148	148				
05/26/03	0	14	43	43	548	696				
05/27/03	7	21	47	90	759	1,455				
05/28/03	0	21	272	362	1,124	2,579				
05/29/03	0	21	172	534	1,143	3,722				
05/30/03	2	23	436	970	2,306	6,028	0	0		
05/31/03	0	23	2,416	3,386	1,424	7,452	0	0		
06/01/03	199	222	3,089	6,475	3,398	10,850	0	0		
06/02/03	0	222	2,817	9,292	1,600	12,450	0	0		
06/03/03	42,653	42,875	831	10,123	1,233	13,683	0	0		
06/04/03	40,091	82,966	9,158	19,281	2,214	15,897	0	0		
06/05/03	90,133	173,099	5,467	24,748	4,045	19,942	0	0		
06/06/03	28,587	201,686	10,078	34,826	4,146	24,088	0	0		
06/07/03	23,644	225,330	5,971	40,797	2,963	27,051	0	0		
06/08/03	37,312	262,642	373	41,170	889	27,940	0	0		
06/09/03	15,775	278,417	4,067	45,237	2,669	30,609	143	143		
06/10/03	18,696	297,113	11,571	56,808	2,512	33,121	1	144		
06/11/03	1,534	298,647	8,120	64,928	1,322	34,443	0	144		
06/12/03	13,091	311,738	1,874	66,802	2,010	36,453	2,307	2,451		
06/13/03	15,049	326,787	1,643	68,445	3,251	39,704	1,051	3,502		
06/14/03	11,641	338,428	12,050	80,495	2,478	42,182	179	3,681	1	1
06/15/03	7,450	345,878	7,093	87,588	3,105	45,287	9	3,690	78	79
06/16/03	9	345,887	5,072	92,660	651	45,938	5,009	8,699	30	109
06/17/03	12	345,899	7,721	100,381	1,552	47,490	4,351	13,050	426	535

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Table 4. (page 2 of 5)

Date	System (weir)									
	Karluk <sup>a</sup>		Ayakulik <sup>b</sup>		Upper Station <sup>c</sup>		Dog Salmon Creek <sup>d</sup>		Frazer fish pass <sup>e</sup>	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
06/18/03	1,005	346,904	4,051	104,432	1,995	49,485	222	13,272	639	1,174
06/19/03	22,180	369,084	7,277	111,709	2,441	51,926	3,710	16,982	361	1,535
06/20/03	1,920	371,004	177	111,886	1,814	53,740	1,103	18,085	97	1,632
06/21/03	5,520	376,524	785	112,671	1,896	55,636	8,923	27,008	3,591	5,223
06/22/03	6,860	383,384	3,837	116,508	1,095	56,731	4,979	31,987	162	5,385
06/23/03	411	383,795	2,077	118,585	1,180	57,911	1,724	33,711	4,581	9,966
06/24/03	448	384,243	324	118,909	2,591	60,502	3,747	37,458	410	10,376
06/25/03	15,277	399,520	1,627	120,536	2,098	62,600	1,891	39,349	268	10,644
06/26/03	7,884	407,404	270	120,806	1,368	63,968	2,575	41,924	687	11,331
06/27/03	1,418	408,822	2,723	123,529	1,143	65,111	3,182	45,106	1,634	12,965
06/28/03	1,693	410,515	8,998	132,527	1,446	66,557	13,352	58,458	1,300	14,265
06/29/03	6,976	417,491	6,205	138,732	1,854	68,411	9,631	68,089	300	14,565
06/30/03	2,259	419,750	3,779	142,511	651	69,062	16,255	84,344	3,334	17,899
07/01/03	821	420,571	939	143,450	457	69,519	3,751	88,095	1,566	19,465
07/02/03	887	421,458	3,891	147,341	53	69,572	7,093	95,188	17,791	37,256
07/03/03	1,830	423,288	1,022	148,363	628	70,200	8,800	103,988	5,589	42,845
07/04/03	6,013	429,301	3,562	151,925	832	71,032	63	104,051	133	42,978
07/05/03	2,697	431,998	122	152,047	1,575	72,607	15,729	119,780	87	43,065
07/06/03	1,123	433,121	295	152,342	706	73,313	9,921	129,701	869	43,934
07/07/03	522	433,643	1,028	153,370	64	73,377	4,182	133,883	15,454	59,388
07/08/03	1,421	435,064	3,484	156,854	1,152	74,529	15,519	149,402	2,456	61,844
07/09/03	852	435,916	2,615	159,469	251	74,780	12,073	161,475	18,957	80,801
07/10/03	1,136	437,052	690	160,159	510	75,290	10,028	171,503	5,320	86,121
07/11/03	1,875	438,927	1,128	161,287	193	75,483	6,298	177,801	994	87,115
07/12/03	7,630	446,557	250	161,537	247	75,730	7,773	185,574	10,441	97,556
07/13/03	160	446,717	107	161,644	122	75,852	10,445	196,019	9,817	107,373
07/14/03	502	447,219	906	162,550	84	75,936	6,365	202,384	9,993	117,366
07/15/03	782	448,001	158	162,708	239	76,175	8,554	210,938	7,841	125,207
07/16/03	1,581	449,582	190	162,898	5	76,180	8,387	219,325	14,795	140,002
07/17/03	327	449,909	6	162,904	261	76,441	2,584	221,909	1,200	141,202

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Table 4. (page 3 of 5)

Date	System (weir)									
	Karluk <sup>a</sup>		Ayakulik <sup>b</sup>		Upper Station <sup>c</sup>		Dog Salmon Creek <sup>d</sup>		Frazer fish pass <sup>e</sup>	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
07/18/03	31	449,940	7	162,911	15	76,456	2,552	224,461	385	141,587
07/19/03	246	450,186	940	163,851	0	76,456	4,116	228,577	10,219	151,806
07/20/03	761	450,947	5,973	169,824	0	76,456	3,345	231,922	6,657	158,463
07/21/03	909	451,856	4,897	174,721	95	76,551	3,542	235,464	8,736	167,199
07/22/03	171	452,027	10,124	184,845	135	76,686	3,788	239,252	4,468	171,667
07/23/03	589	452,616	13	184,858	4,397	81,083	4,865	244,117	1,372	173,039
07/24/03	17	452,633	485	185,343	0	81,083	2,576	246,693	2,798	175,837
07/25/03	74	452,707	3,561	188,904	85	81,168	575	247,268	6,209	182,046
07/26/03	109	452,816	198	189,102	545	81,713	614	247,882	1,384	183,430
07/27/03	581	453,397	133	189,235	70	81,783	2,292	250,174	2,546	185,976
07/28/03	378	453,775	1,147	190,382	57	81,840	1,918	252,092	1,179	187,155
07/29/03	96	453,871	271	190,653	1,545	83,385	1,200	253,292	909	188,064
07/30/03	61	453,932	368	191,021	0	83,385	1,097	254,389	3,794	191,858
07/31/03	7,092	461,024	921	191,942	614	83,999	667	255,056	1,259	193,117
08/01/03	1,780	462,804	484	192,426	4,291	88,290	1,412	256,468	791	193,908
08/02/03	3,412	466,216	190	192,616	10,355	98,645	1,151	257,619	599	194,507
08/03/03	336	466,552	1,507	194,123	3,259	101,904	700	258,319	1,947	196,454
08/04/03	225	466,777	287	194,410	10,044	111,948	968	259,287	1,730	198,184
08/05/03	199	466,976	157	194,567	6,733	118,681	556	259,843	1,160	199,344
08/06/03	4,377	471,353	401	194,968	4,758	123,439	1,105	260,948	831	200,175
08/07/03	179	471,532	1,030	195,998	1,300	124,739	460	261,408	771	200,946
08/08/03	54	471,586	261	196,259	1,676	126,415	127	261,535	638	201,584
08/09/03	730	472,316	234	196,493	1,844	128,259	78	261,613	95	201,679
08/10/03	259	472,575	508	197,001	1,425	129,684	624	262,237		
08/11/03	3,353	475,928	691	197,692	5,379	135,063	327	262,564		
08/12/03	16,747	492,675	200	197,892	12,318	147,381	167	262,731		
08/13/03	5,867	498,542			6,390	153,771				
08/14/03	37,759	536,301			15,112	168,883				
08/15/03	8,946	545,247			6,324	175,207				
08/16/03	7,273	552,520			7,040	182,247				

-Continued-

Table 4. (page 4 of 5)

Date	System (weir)									
	Karluk <sup>a</sup>		Ayakulik <sup>b</sup>		Upper Station <sup>c</sup>		Dog Salmon Creek <sup>d</sup>		Frazer fish pass <sup>e</sup>	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
08/17/03	12,243	564,763			6,099	188,346				
08/18/03	2,879	567,642			6,733	195,079				
08/19/03	481	568,123			2,812	197,891				
08/20/03	25,892	594,015			11,097	208,988				
08/21/03	17,296	611,311			5,592	214,580				
08/22/03	1,761	613,072			10,748	225,328				
08/23/03	2,213	615,285			14,388	239,716				
08/24/03	814	616,099			8,352	248,068				
08/25/03	295	616,394			3,031	251,099				
08/26/03	15,894	632,288			6,731	257,830				
08/27/03	11,793	644,081			1,635	259,465				
08/28/03	26,044	670,125			1,162	260,627				
08/29/03	17,350	687,475			2,372	262,999				
08/30/03	7,746	695,221			899	263,898				
08/31/03	12,276	707,497			1,201	265,099				
09/01/03	29,647	737,144			1,915	267,014				
09/02/03	1,005	738,149			5,207	272,221				
09/03/03	35,345	773,494			1,833	274,054				
09/04/03	6,171	779,665			1,281	275,335				
09/05/03	1,338	781,003			1,734	277,069				
09/06/03	51,016	832,019								
09/07/03	16,558	848,577								
09/08/03	1,797	850,374								
09/09/03	18,373	868,747								
09/10/03	20,181	888,928								
09/11/03	11,982	900,910								
09/12/03	13,223	914,133								
09/13/03	1,075	915,208								
09/14/03	4,515	919,723								

-Continued-

Table 4. (page 5 of 5)

Date	System (weir)									
	Karluk <sup>a</sup>		Ayakulik <sup>b</sup>		Upper Station <sup>c</sup>		Dog Salmon Creek <sup>d</sup>		Frazer fish pass <sup>e</sup>	
	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
09/15/03	21,831	941,554								
09/16/03	5,575	947,129								
09/17/03	8,715	955,844								
09/18/03	579	956,423								
09/19/03	4,329	960,752								
09/20/03	57	960,809								
09/21/03	872	961,681								
09/22/03	1,931	963,612								
09/23/03	0	963,612								
09/24/03	20,553	984,165								
09/25/03	39,991	1,024,156								
09/26/03	19,354	1,043,510								
09/27/03	200	1,043,710								
09/28/03	35,000	1,078,710								
Totals	1,078,710		197,892		277,069		262,731		201,679	

<sup>a</sup> Karluk River weir was installed on 5/17 and removed on 9/28 (post-weir estimate included in counts).

<sup>b</sup> Ayakulik River weir was installed on 5/25 and removed on 8/12.

<sup>c</sup> Upper Station (South Olga Lakes) weir was installed on 5/25 and removed on 9/6.

<sup>d</sup> Dog Salmon Creek East weir was installed on 5/29, and West weir installed on 5/30. All weirs were removed on 8/13

<sup>e</sup> Frazer Lake fish pass diversion weir was installed on 6/14 and removed on 8/9. Fish are initially counted through Dog Salmon weir.

Table 5. Daily and cumulative sockeye salmon escapement counted through weirs by system (minor systems), Kodiak Management Area, 2003.

Date	System (weir)													
	Pauls <sup>a</sup>		Litnik <sup>b</sup>		Buskin <sup>c</sup>		L. Louise <sup>d</sup>		Saltery <sup>e</sup>		Akalura <sup>f</sup>		Little River <sup>g</sup>	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
05/15/03			0	0										
05/16/03			4	4		0		0						
05/17/03			0	4		0		0						
05/18/03			3	7		3		3						
05/19/03			0	7		3		6						
05/20/03			2	9		4		10						
05/21/03			0	9		18		28						
05/22/03			0	9		29		57						
05/23/03			3	12		7		64						
05/24/03			14	26		2		66						
05/25/03			75	101		3		69						
05/26/03			5	106		0		69						
05/27/03			16	122		1		70						
05/28/03			28	150		10		80						
05/29/03			42	192		52		132					806	806
05/30/03			854	1,046		459		591					3,441	4,247
05/31/03			859	1,905		231		822					1,882	6,129
06/01/03	0	0	377	2,282		214		1,036	0	0			3,938	10,067
06/02/03	0	0	208	2,490		133		1,169	0	0			2,756	12,823
06/03/03	0	0	24	2,514		328		1,497	0	0			6,357	19,180
06/04/03	0	0	0	2,514		49		1,546	0	0			0	5,270
06/05/03	0	0	7,298	9,812		1,604		3,150	0	0			32	32
06/06/03	0	0	1,243	11,055		1,222		4,372	0	0			0	32
06/07/03	0	0	699	11,754		751		5,123	0	0			0	32
06/08/03	0	0	501	12,255		1,322		6,445	1	1			0	32
06/09/03	0	0	1,935	14,190		458		6,903	1	2			0	32
06/10/03	0	0	634	14,824		320		7,223	0	2			0	32
06/11/03	7,724	7,724	808	15,632		1,172		8,395	2	4			0	32
06/12/03	2,288	10,012	157	15,789		624		9,019	1	5			6	38
													4,318	60,780

-Continued-

Table 5. (page 2 of 5)

Date	System (weir)													
	Pauls <sup>a</sup>		Litnik <sup>b</sup>		Buskin <sup>c</sup>		Lake Louise <sup>d</sup>		Saltery <sup>e</sup>		Akalura <sup>f</sup>		Little River <sup>g</sup>	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
06/13/03	1,344	11,356	23	15,812	323	9,342	0	5			0	38	1,830	62,610
06/14/03	175	11,531	595	16,407	600	9,942	2	7			0	38	3,230	65,840
06/15/03	95	11,626	4	16,411	1,358	11,300	7	14			0	38	2,174	68,014
06/16/03	69	11,695	381	16,792	626	11,926	3	17			0	38	494	68,508
06/17/03	100	11,795	224	17,016	270	12,196	1	18			0	38	317	68,825
06/18/03	1,429	13,224	1,581	18,597	547	12,743	0	18			0	38	442	69,267
06/19/03	352	13,576	1,156	19,753	136	12,879	2	20	112	112	0	38	929	70,196
06/20/03	424	14,000	270	20,023	722	13,601	1	21	1,002	1,114	0	38	556	70,752
06/21/03	270	14,270	831	20,854	328	13,929	5	26	231	1,345	26	64	753	71,505
06/22/03	229	14,499	508	21,362	257	14,186	3	29	425	1,770	0	64	393	71,898
06/23/03	417	14,916	102	21,464	459	14,645	6	35	277	2,047	0	64	354	72,252
06/24/03	386	15,302	903	22,367	2,694	17,339	11	46	730	2,777	0	64	886	73,138
06/25/03	0	15,302	36	22,403	158	17,497	9	55	542	3,319	0	64	231	73,369
06/26/03	83	15,385	104	22,507	47	17,544	1	56	193	3,512	0	64	75	73,444
06/27/03	74	15,459	77	22,584	42	17,586	1	57	794	4,306	0	64	122	73,566
06/28/03	46	15,505	112	22,696	835	18,421	1	58	981	5,287	2	66	0	73,566
06/29/03	291	15,796	35	22,731	77	18,498	3	61	2,376	7,663	2	68	122	73,688
06/30/03	362	16,158	200	22,931	77	18,575	10	71	1,425	9,088	0	68	7	73,695
07/01/03	1,492	17,650	42	22,973	58	18,633	13	84	1,018	10,106	0	68	5	73,700
07/02/03	231	17,881	14	22,987	181	18,814	2	86	1,790	11,896	0	68	50	73,750
07/03/03	1,024	18,905	186	23,173	51	18,865	23	109	693	12,589	0	68	12	73,762
07/04/03	40	18,945	122	23,295	78	18,943	57	166	955	13,544	0	68	7	73,769
07/05/03	480	19,425	462	23,757	23	18,966	41	207	572	14,116	0	68	13	73,782
07/06/03	574	19,999	40	23,797	101	19,067	30	237	2,127	16,243	0	68	12	73,794
07/07/03	565	20,564	18	23,815	201	19,268	21	258	1,007	17,250	0	68	3	73,797
07/08/03	407	20,971	34	23,849	749	20,017	49	307	1,845	19,095	0	68	13	73,810
07/09/03	132	21,103	48	23,897	382	20,399	53	360	1,425	20,520	0	68	29	73,839
07/10/03	426	21,529	12	23,909	20	20,419	14	374	883	21,403	0	68	5	73,844
07/11/03	809	22,338	1	23,910	67	20,486	34	408	1,126	22,529	0	68	12	73,856
07/12/03	49	22,387	370	24,280	1,492	21,978	213	621	1,150	23,679	8	76		

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Table 5. (page 3 of 5)

Date	System (weir)													
	Pauls <sup>a</sup>		Litnik <sup>b</sup>		Buskin <sup>c</sup>		Lake Louise <sup>d</sup>		Saltery <sup>e</sup>		Akalura <sup>f</sup>		Little River <sup>g</sup>	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
07/13/03	90	22,477	0	24,280	65	22,043	18	639	822	24,501	0	76		
07/14/03	72	22,549	1	24,281	81	22,124	18	657	1,251	25,752	18	94		
07/15/03	0	22,549	1	24,282	59	22,183	32	689	2,492	28,244	1	95		
07/16/03	145	22,694	2	24,284	74	22,257	20	709	1,745	29,989	0	95		
07/17/03	305	22,999	6	24,290	5	22,262	28	737	1,289	31,278	0	95		
07/18/03	393	23,392	113	24,403	3	22,265	21	758	1,675	32,953	0	95		
07/19/03	81	23,473	4	24,407	62	22,327	2	760	1,216	34,169	0	95		
07/20/03	121	23,594	3	24,410	79	22,406	75	835	1,791	35,960	0	95		
07/21/03		5	24,415	42	22,448	2	837	2,864	38,824	0	95			
07/22/03		4	24,419	75	22,523	21	858	2,174	40,998	0	95			
07/23/03		70	24,489	133	22,656	40	898	2,425	43,423	0	95			
07/24/03		279	24,768	25	22,681	19	917	1,745	45,168	0	95			
07/25/03		74	24,842	24	22,705	9	926	1,529	46,697	0	95			
07/26/03		624	25,466	55	22,760	2	928	933	47,630	0	95			
07/27/03		0	25,466	37	22,797	1	929	1,723	49,353	0	95			
07/28/03		23	25,489	21	22,818	1	930	1,057	50,410	0	95			
07/29/03		51	25,540	6	22,824	0	930	1,102	51,512	0	95			
07/30/03		97	25,637	41	22,865	0	930	1,098	52,610	3	98			
07/31/03		157	25,794	49	22,914	2	932	587	53,197	0	98			
08/01/03		106	25,900	16	22,930	0	932	394	53,591	0	98			
08/02/03		83	25,983	16	22,946	0	932	721	54,312	0	98			
08/03/03		29	26,012	13	22,959	0	932	395	54,707	8	106			
08/04/03		67	26,079	3	22,962	0	932	252	54,959	0	106			
08/05/03		11	26,090	13	22,975	0	932	365	55,324	0	106			
08/06/03		131	26,221	67	23,042	0	932	314	55,638	0	106			
08/07/03		39	26,260	48	23,090	0	932	288	55,926	0	106			
08/08/03		6	26,266	161	23,251	0	932	252	56,178	0	106			
08/09/03		6	26,272	32	23,283	0	932	268	56,446	0	106			
08/10/03		3	26,275	21	23,304	185	1,117	102	56,548	0	106			
08/11/03		32	26,307	11	23,315	35	1,152	305	56,853	4	110			

-Continued-

Table 5. (page 4 of 5)

Date	System (weir)													
	Pauls <sup>a</sup>		Litnik <sup>b</sup>		Buskin <sup>c</sup>		Lake Louise <sup>d</sup>		Saltery <sup>e</sup>		Akalura <sup>f</sup>		Little River <sup>g</sup>	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
08/12/03			47	26,354	8	23,323	16	1,168	237	57,090	83	193		
08/13/03			5	26,359	4	23,327	5	1,173	87	57,177	46	239		
08/14/03			153	26,512	25	23,352	506	1,679	82	57,259	12	251		
08/15/03			399	26,911	57	23,409	131	1,810	35	57,294	0	251		
08/16/03			112	27,023	106	23,515	22	1,832	69	57,363	6	257		
08/17/03			58	27,081	54	23,569	0	1,832	30	57,393	12	269		
08/18/03			12	27,093	31	23,600	2	1,834	65	57,458	1,037	1,306		
08/19/03			117	27,210	14	23,614	240	2,074	12	57,470	3,454	4,760		
08/20/03			512	27,722	31	23,645	953	3,027	11	57,481	448	5,208		
08/21/03			18	27,740	34	23,679	241	3,268	17	57,498	38	5,246		
08/22/03			22	27,762	12	23,691	140	3,408	20	57,518	20	5,266		
08/23/03			4	27,766	6	23,697	37	3,445	14	57,532	23	5,289		
08/24/03					24	23,721	22	3,467	4	57,536	54	5,343		
08/25/03					36	23,757	3	3,470	10	57,546	333	5,676		
08/26/03					22	23,779	13	3,483	12	57,558	222	5,898		
08/27/03					11	23,790	3	3,486	32	57,590	37	5,935		
08/28/03					24	23,814	2	3,488	3	57,593	15	5,950		
08/29/03					4	23,818	1,000	4,488	400	57,993	18	5,968		
08/30/03					11	23,829					6	5,974		
08/31/03					6	23,835					0	5,974		
09/01/03					2	23,837					6	5,980		
09/02/03					9	23,846					0	5,980		
09/03/03					8	23,854					4	5,984		
09/04/03					1	23,855					3	5,987		
09/05/03					1	23,856					0	5,987		
09/06/03					0	23,856					3	5,990		
09/07/03					0	23,856					4	5,994		
09/08/03					0	23,856					0	5,994		
09/09/03					2	23,858					59	6,053		
09/10/03					0	23,858					3	6,056		

-Continued-

Table 5. (page 5 of 5)

Date	System (weir)													
	Pauls <sup>a</sup>		Litnik <sup>b</sup>		Buskin <sup>c</sup>		Lake Louise <sup>d</sup>		Saltery <sup>e</sup>		Akalura <sup>f</sup>		Little River <sup>g</sup>	
Date	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.
09/11/03					0	23,858					3	6,059		
09/12/03					1	23,859					0	6,059		
09/13/03					1	23,860					106	6,165		
09/14/03					4	23,864					1,055	7,220		
09/15/03					0	23,864								
09/16/03					0	23,864								
09/17/03					0	23,864								
09/18/03					0	23,864								
09/19/03					0	23,864								
09/20/03					0	23,864								
09/21/03					0	23,864								
09/22/03					1	23,865								
09/23/03					0	23,865								
09/24/03					0	23,865								
09/25/03					0	23,865								
09/26/03					0	23,865								
09/27/03					1	23,866								
09/28/03					0	23,866								
09/29/03					4	23,870								
09/30/03														
Totals	23,594		27,766		23,870		4,488		57,993		7,220		73,856	

<sup>a</sup> Pauls Lake weir was installed on 6/1 and removed on 7/21.<sup>b</sup> Afognak Lake (Litnik) weir was installed on 5/11 and removed on 8/23.<sup>c</sup> Buskin River weir was installed on 5/16 and removed on 9/30<sup>d</sup> Lake Louise weir was installed on 6/1 and removed on 8/29. L. Louise outlet drains into the Buskin River.<sup>e</sup> Saltery Lake weir was installed on 6/19 and removed on 8/29 (pre-weir estimate included).<sup>f</sup> Akalura Lake weir was installed on 6/4 and removed on 9/14 (post-weir estimate included).<sup>g</sup> Little River Lake weir (operated by Kodiak Wildlife Refuge) was installed on 5/29 and removed on 7/11.

Table 6. Estimated age composition of sockeye salmon escapements by system, Kodiak Management Area, 2003.

District System	Sample Size	Age														Total		
		3.0	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4		
<i>Afognak District</i>																		
Pauls L.	520	%		12.0		38.1	1.5	24.6	16.0	0.1	7.8						100.0	
		#		2,825		8,996	344	5,805	3,780	14	1,830						23,594	
Afognak L. (Litnik)	498	%		4.1		22.6	0.2	0.8	25.7		29.6	2.8		14.1			100.0	
		#		1,148		6,273	66	233	7,141		8,229	770		3,907			27,766	
<i>Northwest Kodiak District</i>																		
Little River L.	936	%	0.1		0.4		11.5	75.9		0.7	0.4		8.6		2.4		100.0	
		#	38		297		8,497	56,062		538	323		6,353		1,748		73,856	
Karluk L. early run	1,388	%	0.1		1.9	4.1	0.7	64.0	0.6		15.9	8.0	0.0	4.7	0.1		100.0	
		#	597		8,370	18,404	2,944	289,045	2,872		71,760	36,250	37	21,086	492		451,856	
Karluk L. late run	1,870	%	0.1	0.0	0.0	0.1	1.6	4.9	0.2	56.9	0.8		16.6	13.5	5.1	0.0	100.0	
		#	614	287	51	842	9,978	30,935	1,301	356,828	4,970		104,161	84,437	31,840	62	547	626,854
<i>Southwest Kodiak District</i>																		
Ayakulik R. (Red L.)	1,635	%		1.1	2.4	26.8	4.4	6.4	49.3	0.7		8.2	0.4	0.1	0.1		100.0	
		#		2,260	4,816	52,991	8,750	12,652	97,530	1,469		16,162	727	291	244		197,892	

-Continued-

Table 6. (page 2 of 2)

District System	Sample Size	Age															Total	
		3.0	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4		
<i>Alitak Bay District</i>																		
S. Olga L. (Upper Stn)	1,187	%		0.3	14.3		29.5	8.0	0.2	42.0		5.1	0.6				100.0	
Early Run		#		256	10,912		22,461	6,080	148	31,966		3,911	441				76,175	
S. Olga L. (Upper Stn)	795	%		14.0	1.6	0.0	21.7	4.3	0.4	51.1	0.7	2.0	4.0				100.0	
Late Run <sup>a</sup>		#		13,879	1,606	24	21,511	4,302	439	50,594	672	2,004	4,000				99,032	
Frazer L.	1,443	%			13.4		0.2	51.2	0.1	26.6	5.7	0.1	2.6				100.0	
		#			27,103		329	103,188	232	53,725	11,480	269	5,326				201,679	
Akalura L.	41	%			4.9		7.8		4.0	73.9			9.4				100.0	
		#			291		463		237	4,383			556				5,930	
<i>Eastside Kodiak District</i>																		
Saltery L. <sup>a</sup>	537	%		0.4			10.3	0.3	50.8	15.2		22.0	0.2	0.5	0.3		100.0	
		#		189			5,359	144	26,364	7,906		11,438	95	239	137		51,872	
Totals	10,850	%	0.0	0.8	2.5	0.3	7.5	9.4	3.2	52.2	1.2	0.0	12.3	6.9	0.0	3.5	100.0	
		#	614	14,650	46,794	5,682	137,028	172,214	58,851	958,961	21,464	284	225,913	127,043	594	63,567	554	2,294
																	1,836,506	

<sup>a</sup> Age composition estimates are not necessarily representative of the entire escapement; see individual system tables.

Table 7. Estimated age composition of Pauls Lake sockeye salmon escapement by week, 2003.

Week	Sample Size		Age							Total	
			1.1	1.2	2.1	1.3	2.2	1.4	2.3		
24-25 6/07-6/20	0	Percent	2.3	44.2	0.0	27.9	18.6	0.0	7.0	100.0	
		Numbers	326	6,186	0	3,907	2,605	0	977	14,000	
26 6/21-6/27	129	Percent	2.3	44.2	0.0	27.9	18.6	0.0	7.0	100.0	
		Numbers	34	645	0	407	271	0	102	1,459	
27 6/28-7/04	241	Percent	21.9	33.1	3.1	16.7	15.9	0.3	9.1	100.0	
		Numbers	764	1,153	108	581	553	11	316	3,486	
28 7/05-7/11	150	Percent	35.8	22.4	5.0	19.1	8.1	0.1	9.4	100.0	
		Numbers	1,216	761	169	650	276	3	318	3,393	
29-30 7/12-7/25	0	Percent	38.7	20.0	5.3	20.7	6.0	0.0	9.3	100.0	
		Numbers	486	251	67	260	75	0	117	1,256	
Total		Percent	12.0	38.1	1.5	24.6	16.0	0.1	7.8	100.0	
		Numbers	2,825	8,996	344	5,805	3,780	14	1,830	23,594	

Table 8. Length composition of Pauls Lake sockeye salmon escapement samples by age and sex, 2003.

	Age							
	1.1	1.2	1.3	1.4	2.1	2.2	2.3	Total
<b>Females</b>								
Mean Length (mm)	0	487	535	0	0	494	536	508
SE	-	3	3	-	-	3	6	2
Range	0-0	421-585	465-585	0-0	0-0	461-540	420-575	420-585
Sample Size	0	98	67	0	0	31	24	220
<b>Males</b>								
Mean Length (mm)	345	500	545	575	350	503	539	435
SE	2	4	9	-	5	6	12	5
Range	282-434	421-594	298-595	575-575	299-380	410-608	355-605	282-608
Sample Size	123	60	33	1	17	38	22	294
<b>All Fish</b>								
Mean Length (mm)	345	492	538	575	350	499	537	466
SE	2	3	4	-	5	4	6	4
Range	282-434	421-594	298-595	575-575	299-380	410-608	355-605	282-608
Sample Size	123	158	100	1	17	69	46	514

Table 9. Estimated sex composition of Pauls Lake sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement					
		Females	Males	Total	Percent		Number			
					Females	Males	Females	Males		
24-25	6/07-6/20	0	0	0	66.3	33.8	9,275	4,725	14,000	
26	6/21-6/27	106	54	160	66.3	33.8	967	492	1,459	
27	6/28-7/04	110	170	280	44.0	56.0	1,533	1,953	3,486	
28	7/05-7/11	56	124	180	32.9	67.1	1,116	2,277	3,393	
29-30	7/12-7/25	0	0	0	31.1	68.9	391	865	1,256	
Total		272	348	620	56.3	43.7	13,282	10,312	23,594	

Table 10. Estimated age composition of Afognak Lake (Litnik) sockeye salmon escapement by week, 2003.

Week	Sample Size	Age									Total
		1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3		
20-22 5/10-5/30	0	Percent	0.0	19.6	0.0	1.0	29.9	33.0	1.0	15.5	100.0
		Numbers	0	205	0	11	313	345	11	162	1,046
23 5/31-6/06	97	Percent	0.2	22.9	0.2	0.8	30.8	29.6	2.3	13.2	100.0
		Numbers	25	2,295	25	76	3,082	2,962	226	1,317	10,009
24 6/07-6/13	105	Percent	1.0	30.4	0.8	0.2	32.4	22.1	5.0	8.1	100.0
		Numbers	46	1,447	37	9	1,543	1,053	237	386	4,757
25 6/14-6/20	105	Percent	6.2	30.7	0.1	0.8	22.3	25.3	4.8	9.9	100.0
		Numbers	263	1,291	4	34	939	1,065	201	415	4,211
26 6/21-6/27	35	Percent	17.6	21.2	0.0	0.4	22.0	27.4	3.6	7.7	100.0
		Numbers	451	544	0	10	562	703	93	198	2,561
27 6/28-7/04	36	Percent	27.9	10.9	0.0	1.9	10.2	32.8	0.5	15.8	100.0
		Numbers	198	77	0	13	73	233	3	113	711
28 7/05-7/11	17	Percent	15.5	7.8	0.0	1.0	20.0	34.6	0.0	21.1	100.0
		Numbers	95	48	0	6	123	213	0	130	615
29 7/12-7/18	34	Percent	10.7	12.3	0.0	1.6	18.2	35.3	0.0	21.9	100.0
		Numbers	53	61	0	8	90	174	0	108	493
30 7/19-7/25	0	Percent	3.9	15.5	0.0	0.8	13.1	48.3	0.0	18.4	100.0
		Numbers	17	68	0	3	58	212	0	81	439
31 7/26-8/01	34	Percent	0.0	12.3	0.0	0.8	13.8	49.4	0.0	23.7	100.0
		Numbers	0	130	0	8	146	523	0	251	1,058
32 8/02-8/08	35	Percent	0.0	5.7	0.0	2.9	11.4	40.0	0.0	40.0	100.0
		Numbers	0	21	0	10	42	146	0	146	366
33-35 8/09-8/29	0	Percent	0.0	5.7	0.0	2.9	11.4	40.0	0.0	40.0	100.0
		Numbers	0	86	0	43	171	600	0	600	1,500
Total	498	Percent	4.1	22.6	0.2	0.8	25.7	29.6	2.8	14.1	100.0
		Numbers	1,148	6,273	66	233	7,141	8,229	770	3,907	27,766

Table 11. Length composition of Afognak Lake (Litnik) sockeye salmon escapement samples by age and sex, 2003.

	Age								
	1.1	1.2	1.3	2.1	2.2	2.3	3.2	3.3	Total
<b>Females</b>									
Mean Length (mm)	340	485	540	0	479	530	500	529	506
SE	-	3	2	-	3	2	2	4	2
Range	340-340	430-571	538-545	0-0	410-585	483-580	497-503	485-569	340-585
Sample Size	1	67	3	0	62	98	3	38	272
<b>Males</b>									
Mean Length (mm)	339	506	554	357	497	548	496	552	495
SE	4	4	-	-	5	3	8	3	5
Range	283-375	462-577	554-554	357-357	397-550	497-591	469-545	521-599	283-599
Sample Size	33	42	1	1	50	50	10	34	221
<b>All Fish</b>									
Mean Length (mm)	339	493	544	357	487	536	497	540	501
SE	4	3	4	-	3	2	6	3	3
Range	283-375	430-577	538-554	357-357	397-585	483-591	469-545	485-599	283-599
Sample Size	34	109	4	1	112	148	13	72	493

Table 12. Estimated sex composition of Afognak Lake (Litnik) sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement					
		Females	Males	Total	Percent		Number			
					Females	Males	Females	Males	Total	
20-22	5/10-5/30	0	0	0	51.9	48.1	543	503	1,046	
23	5/31-6/06	54	50	104	55.6	44.4	5,561	4,448	10,009	
24	6/07-6/13	79	41	120	63.6	36.4	3,025	1,732	4,757	
25	6/14-6/20	74	46	120	60.7	39.3	2,558	1,653	4,211	
26	6/21-6/27	14	26	40	45.9	54.1	1,176	1,385	2,561	
27	6/28-7/04	20	20	40	49.4	50.6	351	360	711	
28	7/05-7/11	12	7	19	58.4	41.6	359	256	615	
29	7/12-7/18	17	23	40	51.9	48.1	256	237	493	
30	7/19-7/25	0	0	0	51.7	48.3	227	212	439	
31	7/26-8/01	22	18	40	54.3	45.7	575	483	1,058	
32	8/02-8/08	21	19	40	52.5	47.5	192	174	366	
33-35	8/09-8/29	0	0	0	52.5	47.5	788	713	1,500	
Total		313	250	563	56.2	43.8	15,612	12,154	27,766	

Table 13. Estimated age composition of Little River Lake sockeye salmon escapement by week, 2003.

Week	Sample Size		Age								Total
			0.2	1.2	1.3	2.2	2.3	3.2	3.3	4.3	
22 5/24-5/30	37	Percent	0.0	0.2	9.2	70.2	0.2	0.2	17.5	2.7	100.0
		Numbers	0	7	390	2,980	7	7	742	116	4,247
23 5/31-6/06	211	Percent	0.0	0.7	13.6	70.9	0.8	0.7	10.6	2.8	100.0
		Numbers	0	210	4,029	21,063	253	210	3,140	824	29,728
24 6/07-6/13	203	Percent	0.0	0.2	11.7	77.2	0.9	0.2	7.4	2.4	100.0
		Numbers	10	53	3,361	22,108	258	53	2,115	677	28,635
25 6/14-6/20	217	Percent	0.3	0.3	6.9	87.2	0.3	0.4	3.6	1.1	100.0
		Numbers	25	25	558	7,103	20	31	293	87	8,142
26 6/21-6/27	219	Percent	0.1	0.1	5.6	89.7	0.0	0.8	2.2	1.5	100.0
		Numbers	2	2	157	2,524	0	23	62	43	2,814
27 6/28-7/04	49	Percent	0.0	0.0	1.4	97.4	0.0	0.2	0.5	0.4	100.0
		Numbers	0	0	3	198	0	0	1	1	203
28 7/05-7/11	0	Percent	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0
		Numbers	0	0	0	87	0	0	0	0	87
Total	936	Percent	0.1	0.4	11.5	75.9	0.7	0.4	8.6	2.4	100.0
		Numbers	38	297	8,497	56,062	538	323	6,353	1,748	73,856

Table 14. Length composition of Little River Lake sockeye salmon escapement samples by age and sex, 2003.

	Age								
	0.2	1.2	1.3	2.2	2.3	3.2	3.3	4.3	Total
<b>Females</b>									
Mean Length (mm)	0	600	538	497	555	488	524	550	503
SE	-	-	3	1	45	2	5	9	1
Range	0-0	600-600	480-575	410-610	510-600	485-490	480-600	520-610	410-610
Sample Size	0	1	47	442	2	3	24	9	528
<b>Males</b>									
Mean Length (mm)	445	562	559	513	542	447	541	530	519
SE	-	78	7	2	33	13	6	9	2
Range	445-445	485-640	480-625	420-605	510-575	435-460	480-640	495-565	420-640
Sample Size	1	2	35	329	2	2	29	8	408
<b>All Fish</b>									
Mean Length (mm)	445	575	547	504	548	472	533	540	510
SE	-	46	4	1	23	11	4	7	1
Range	445-445	485-640	480-625	410-610	510-600	435-490	480-640	495-610	410-640
Sample Size	1	3	82	771	4	5	53	17	936

Table 15. Estimated sex composition of Little River Lake sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement				Total
		Females	Males	Total	Percent	Females	Males	Number	
22	5/24-5/30	23	17	40	56.4	43.6	2,393	1,854	4,247
23	5/31-6/06	121	119	240	51.9	48.1	15,417	14,311	29,728
24	6/07-6/13	132	108	240	54.8	45.2	15,686	12,949	28,635
25	6/14-6/20	147	93	240	59.4	40.6	4,834	3,308	8,142
26	6/21-6/27	137	103	240	57.6	42.4	1,622	1,192	2,814
27	6/28-7/04	27	25	52	53.1	46.9	108	95	203
28	7/05-7/11	0	0	0	51.9	48.1	45	42	87
<b>Total</b>		<b>587</b>	<b>465</b>	<b>1052</b>	<b>54.3</b>	<b>45.7</b>	<b>40,107</b>	<b>33,749</b>	<b>73,856</b>

Table 16. Estimated age composition of Karluk Lake early-run sockeye salmon escapement by week, 2003.

Week	Sample Size	Age												Total
		1.1	1.2	2.1	1.3	2.2	3.1	2.3	3.2	2.4	3.3	3.4		
21-22 5/17-5/30	0	Percent	0.0	1.5	2.5	1.0	68.5	0.0	11.8	9.4	0.0	5.4	0.0	100.0
		Numbers	0	0	1	0	16	0	3	2	0	1	0	23
23 5/31-6/06	203	Percent	0.0	1.5	2.5	1.0	68.4	0.0	11.9	9.3	0.0	5.4	0.0	100.0
		Numbers	0	2,933	5,013	1,963	137,905	70	24,096	18,803	0	10,856	23	201,663
24 6/07-6/13	204	Percent	0.0	1.0	3.3	0.6	65.6	1.0	15.4	8.4	0.0	4.3	0.3	100.0
		Numbers	0	1,264	4,151	799	82,122	1,233	19,273	10,496	0	5,386	377	125,101
25 6/14-6/20	106	Percent	0.0	3.6	7.2	0.1	58.6	1.8	18.5	8.3	0.0	1.7	0.1	100.0
		Numbers	4	1,608	3,194	55	25,918	784	8,169	3,670	0	761	55	44,217
26 6/21-6/27	256	Percent	0.9	2.8	9.1	0.0	53.4	1.0	23.4	5.4	0.0	4.1	0.0	100.0
		Numbers	339	1,067	3,423	7	20,188	393	8,835	2,030	0	1,535	0	37,818
27 6/28-7/04	213	Percent	0.4	2.9	6.6	0.3	51.1	1.4	27.5	3.4	0.0	6.3	0.0	100.0
		Numbers	85	588	1,353	65	10,468	296	5,625	704	0	1,296	0	20,479
28 7/05-7/11	133	Percent	1.0	4.0	6.3	0.2	53.1	0.5	27.1	2.0	0.0	5.7	0.0	100.0
		Numbers	99	386	607	15	5,107	48	2,608	197	3	552	3	9,626
29 7/12-7/18	208	Percent	0.6	3.9	5.4	0.3	56.9	0.3	24.2	2.3	0.3	5.5	0.3	100.0
		Numbers	70	426	590	30	6,269	31	2,670	255	30	611	30	11,013
30 7/19-7/21	65	Percent	0.0	5.1	3.7	0.5	54.9	0.9	25.0	4.9	0.2	4.6	0.2	100.0
		Numbers	0	98	71	10	1,051	17	480	94	3	88	3	1,916
Total	1,388	Percent	0.1	1.9	4.1	0.7	64.0	0.6	15.9	8.0	0.0	4.7	0.1	100.0
		Numbers	597	8,370	18,404	2,944	289,045	2,872	71,760	36,250	37	21,086	492	451,856

Table 17. Length composition of Karluk Lake early-run sockeye salmon escapement samples by age and sex, 2003.

	Age												
	1.1	1.2	1.3	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	Total	
<b>Females</b>													
Mean Length (mm)	484	488	546	400	505	544	0	0	508	545	551	517	
SE	-	5	-	9	1	2	-	-	6	4	-	1	
Range	484-484	439-525	546-546	391-409	412-571	484-634	0-0	0-0	422-555	479-609	551-551	391-634	
Sample Size	1	24	1	2	426	186	0	0	35	36	1	712	
<b>Males</b>													
Mean Length (mm)	356	522	552	373	524	560	573	392	512	560	557	511	
SE	10	8	24	3	2	3	-	9	6	6	-	3	
Range	339-374	455-586	494-605	320-445	412-647	491-647	573-573	342-442	422-590	490-643	557-557	320-647	
Sample Size	4	17	4	75	371	114	1	13	39	32	1	671	
<b>All Fish</b>													
Mean Length (mm)	382	502	551	374	514	550	573	392	510	552	554	514	
SE	27	5	19	3	1	2	-	9	4	4	3	1	
Range	339-484	439-586	494-605	320-445	412-647	484-647	573-573	342-442	422-590	479-643	551-557	320-647	
Sample Size	5	41	5	77	797	300	1	13	74	68	2	1,383	

Table 18. Estimated sex composition of Karluk Lake early-run sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement				
		Females	Males	Total	Percent		Number		
					Females	Males	Females	Males	Total
21	5/17-5/23	0	0	0	34.2	65.8	4	7	11
22	5/24-5/30	0	0	0	34.2	65.8	4	8	12
23	5/31-6/06	82	158	240	34.6	65.4	69,815	131,848	201,663
24	6/07-6/13	128	112	240	46.7	53.3	58,420	66,681	125,101
25	6/14-6/20	68	64	132	52.1	47.9	23,016	21,201	44,217
26	6/21-6/27	198	119	317	60.4	39.6	22,840	14,978	37,818
27	6/28-7/04	153	87	240	61.9	38.1	12,670	7,809	20,479
28	7/05-7/11	81	90	171	51.4	48.6	4,944	4,682	9,626
29	7/12-7/18	112	128	240	47.0	53.0	5,177	5,836	11,013
30	7/19-7/25	117	96	213	51.8	48.2	992	924	1,916
Total		939	854	1,793	43.8	56.2	197,882	253,974	451,856

Table 19. Estimated age composition of Karluk Lake late-run sockeye salmon escapement by week, 2003.

Week	Sample Size	Age														Total	
		3.0	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	2.3	3.2	3.3	3.4	4.3		
30 7/22-7/25	114	Percent	0.0	0.0	0.0	0.0	6.0	3.3	0.5	52.3	1.1	26.7	6.0	4.0	0.0	0.0	100.0
		Numbers	0	0	0	0	51	28	5	445	9	227	51	34	0	0	851
31 7/26-8/01	203	Percent	0.0	0.0	0.4	0.4	5.3	1.2	0.2	55.2	0.0	28.0	4.8	4.4	0.1	0.0	100.0
		Numbers	0	0	40	40	539	118	18	5,574	5	2,823	483	449	8	0	10,097
32 8/02-8/08	192	Percent	0.0	0.0	0.1	0.1	4.9	3.2	0.8	54.2	0.0	25.9	4.0	6.5	0.4	0.0	100.0
		Numbers	0	0	11	11	427	285	68	4,756	0	2,271	352	567	34	0	8,782
33 8/09-8/15	191	Percent	0.0	0.0	0.0	0.0	3.1	2.9	0.1	54.2	0.5	20.5	11.9	6.8	0.0	0.0	100.0
		Numbers	0	0	0	0	2,299	2,149	40	39,951	360	15,105	8,741	4,994	20	0	73,661
34 8/16-8/22	214	Percent	0.0	0.0	0.0	0.1	2.1	1.1	0.0	44.4	0.4	30.0	11.1	10.9	0.0	0.0	100.0
		Numbers	0	0	0	79	1,425	741	0	30,088	245	20,375	7,498	7,374	0	0	67,825
35 8/23-8/29	207	Percent	0.0	0.0	0.0	0.5	0.9	1.3	0.0	46.7	0.5	27.2	12.7	9.9	0.0	0.3	100.0
		Numbers	0	0	0	353	706	932	0	34,744	386	20,222	9,468	7,398	0	193	74,403
36 8/30-9/05	214	Percent	0.1	0.0	0.0	0.3	0.8	3.4	0.0	56.9	0.9	18.1	14.0	5.0	0.0	0.3	100.0
		Numbers	114	0	0	324	763	3,220	0	53,225	867	16,884	13,115	4,696	0	320	93,528
37 9/06-9/12	212	Percent	0.4	0.1	0.0	0.0	0.7	7.5	0.0	58.6	1.0	13.0	15.1	3.6	0.0	0.0	100.0
		Numbers	482	108	0	34	874	9,950	0	77,976	1,356	17,367	20,128	4,820	0	34	133,130
38 9/13-9/19	219	Percent	0.0	0.4	0.0	0.0	1.3	7.1	0.1	63.4	1.3	6.9	18.7	0.8	0.0	0.0	100.0
		Numbers	18	178	0	0	626	3,306	37	29,548	607	3,214	8,711	376	0	0	46,619
39 9/20-9/26	104	Percent	0.0	0.0	0.0	0.0	1.9	8.7	1.0	68.3	1.0	4.8	13.5	1.0	0.0	0.0	100.0
		Numbers	0	1	0	0	1,591	7,159	794	56,490	796	3,981	11,151	795	0	0	82,758
40 9/27-10/3	0	Percent	0.0	0.0	0.0	0.0	1.9	8.7	1.0	68.3	1.0	4.8	13.5	1.0	0.0	0.0	100.0
		Numbers	0	0	0	0	677	3,046	338	24,031	338	1,692	4,738	338	0	0	35,200
Total	1,870	Percent	0.1	0.0	0.0	0.1	1.6	4.9	0.2	56.9	0.8	16.6	13.5	5.1	0.0	0.1	100.0
		Numbers	614	287	51	842	9,978	30,935	1,301	356,828	4,970	104,161	84,437	31,840	62	547	626,854

Note: Weir was pulled on 9/27. Post-weir estimate of 35,200 fish is based upon an aerial survey of the lagoon and river on 9/28.

Table 20. Length composition of Karluk Lake late-run sockeye salmon escapement samples by age and sex, 2003.

	Age															
	0.2	0.3	1.1	1.2	1.3	2.1	2.2	2.3	3.0	3.1	3.2	3.3	3.4	4.3	Total	
<b>Females</b>																
Mean Length (mm)	0	576	0	514	578	436	524	552	0	438	529	554	0	566	531	
SE	-	-	-	6	-	4	1	2	-	-	3	4	-	-	1	
Range	0-0	576-576	0-0	481-574	578-578	422-463	414-632	482-624	0-0	438-438	435-627	486-621	0-0	566-566	414-632	
Sample Size	0	1	0	23	1	10	550	196	0	1	110	65	0	1	958	
<b>Males</b>																
Mean Length (mm)	528	564	414	523	623	411	548	581	285	414	543	583	532	0	546	
SE	-	34	-	5	7	5	1	2	-	10	3	5	-	-	2	
Range	528-528	531-598	414-414	448-548	610-631	301-491	418-694	482-659	285-285	365-452	432-594	484-648	532-532	0-0	285-694	
Sample Size	1	2	1	22	3	57	453	200	1	10	101	48	1	0	900	
<b>All Fish</b>																
Mean Length (mm)	528	568	414	518	611	415	535	567	285	416	536	567	532	566	538	
SE	-	20	-	4	12	4	1	2	-	9	2	3	-	-	1	
Range	528-528	531-598	414-414	448-574	578-631	301-491	414-694	482-659	285-285	365-452	432-627	484-648	532-532	566-566	285-694	
Sample Size	1	3	1	45	4	67	1,004	401	1	11	212	115	1	1	1,867	

Table 21. Estimated sex composition of Karluk Lake late-run sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement				
		Females	Males	Total	Percent	Females	Males	Number	
						Females	Males	Total	
30	7/19-7/25	117	96	213	54.7	45.3	466	385	851
31	7/26-8/01	136	103	239	55.4	44.6	5,592	4,505	10,097
32	8/02-8/08	109	121	230	49.8	50.2	4,370	4,412	8,782
33	8/09-8/15	112	128	240	47.8	52.2	35,176	38,485	73,661
34	8/16-8/22	132	108	240	56.8	43.2	38,515	29,310	67,825
35	8/23-8/29	153	77	230	51.8	48.2	38,535	35,868	74,403
36	8/30-9/05	96	144	240	40.9	59.1	38,272	55,256	93,528
37	9/06-9/12	102	138	240	44.1	55.9	58,766	74,364	133,130
38	9/13-9/19	126	114	240	52.6	47.4	24,509	22,110	46,619
39	9/20-9/26	76	44	120	63.3	36.7	52,396	30,362	82,758
40	9/27-10/3	0	0	0	63.3	36.7	22,293	12,907	35,200
<b>Total</b>		<b>1,159</b>	<b>1,073</b>	<b>2,232</b>	<b>50.9</b>	<b>49.1</b>	<b>318,895</b>	<b>307,959</b>	<b>626,854</b>

Note: Weir was pulled on 9/27. Post-weir estimate of 35,200 fish is based upon an aerial survey of the lagoon and river on 9/28.

Table 22. Estimated age composition of Ayakulik River (Red L.) sockeye salmon escapement by week, 2003.

Week	Sample Size	Age												Total
		1.1	0.3	1.2	2.1	1.3	2.2	3.1	2.3	3.2	2.4	3.3		
22 5/24-5/30	0	Percent	0.0	3.9	29.1	0.0	7.9	50.2	0.0	7.9	0.0	0.5	0.5	100.0
		Numbers	0	38	282	0	76	487	0	76	0	5	5	970
23 5/31-6/06	203	Percent	0.1	4.0	32.1	0.7	8.6	46.4	0.1	7.2	0.0	0.4	0.4	100.0
		Numbers	37	1,350	10,858	225	2,926	15,721	37	2,439	0	131	131	33,856
24 6/07-6/13	192	Percent	0.5	4.1	40.5	2.9	10.6	35.5	0.6	5.3	0.0	0.0	0.0	100.0
		Numbers	158	1,362	13,601	984	3,562	11,934	192	1,782	11	16	16	33,619
25 6/14-6/20	188	Percent	0.5	3.0	26.4	4.3	5.3	49.9	1.7	8.3	0.4	0.0	0.0	100.0
		Numbers	238	1,317	11,482	1,884	2,318	21,680	738	3,607	168	5	5	43,441
26 6/21-6/27	210	Percent	1.2	2.4	22.1	3.9	5.3	54.7	1.3	8.4	0.2	0.3	0.3	100.0
		Numbers	136	281	2,571	458	611	6,369	147	975	21	37	37	11,643
27 6/28-7/04	198	Percent	1.5	1.5	25.2	6.1	5.5	48.6	0.4	10.5	0.3	0.2	0.2	100.0
		Numbers	433	424	7,163	1,731	1,563	13,806	107	2,972	90	57	50	28,396
28 7/05-7/11	210	Percent	2.1	0.4	23.1	9.4	5.1	47.1	0.4	11.4	0.4	0.4	0.0	100.0
		Numbers	198	42	2,162	883	480	4,413	39	1,065	40	39	0	9,362
29 7/12-7/18	43	Percent	0.6	0.1	26.5	9.4	1.5	56.7	0.1	4.9	0.1	0.1	0.0	100.0
		Numbers	10	2	430	152	24	921	2	80	2	2	0	1,624
30 7/19-7/25	202	Percent	3.5	0.0	14.6	8.2	3.3	58.9	0.8	9.9	0.8	0.0	0.0	100.0
		Numbers	902	0	3,801	2,134	852	15,307	206	2,584	208	0	0	25,993
31 7/26-8/01	189	Percent	1.7	0.0	7.5	3.6	2.7	75.8	0.1	6.6	2.0	0.0	0.0	100.0
		Numbers	61	0	263	126	95	2,670	2	234	71	0	0	3,522
32-33 8/02-8/15	0	Percent	1.6	0.0	6.9	3.2	2.6	77.2	0.0	6.3	2.1	0.0	0.0	100.0
		Numbers	87	0	376	174	145	4,222	0	347	116	0	0	5,466
Total	1,635	Percent	1.1	2.4	26.8	4.4	6.4	49.3	0.7	8.2	0.4	0.1	0.1	100.0
		Numbers	2,260	4,816	52,991	8,750	12,652	97,530	1,469	16,162	727	291	244	197,892

Table 23. Length composition of Ayakulik River (Red L.) sockeye salmon escapement samples by age and sex, 2003.

	Age											
	0.3	1.1	1.2	1.3	2.1	2.2	2.3	2.4	3.1	3.2	3.3	Total
<b>Females</b>												
Mean Length (mm)	562	365	510	561	437	516	568	543	0	542	551	524
SE	7	-	2	4	31	1	3	9	-	15	22	1
Range	520-601	365-365	448-595	494-632	375-469	409-603	500-644	535-552	0-0	522-587	529-573	365-644
Sample Size	15	1	187	46	3	436	98	2	0	4	2	794
<b>Males</b>												
Mean Length (mm)	594	352	516	579	387	529	576	574	386	531	0	511
SE	8	4	2	6	4	1	4	-	9	17	-	2
Range	558-664	312-399	414-609	484-632	303-595	441-611	509-627	574-574	338-441	490-567	0-0	303-664
Sample Size	14	23	200	43	83	412	45	1	10	4	0	835
<b>All Fish</b>												
Mean Length (mm)	578	353	513	570	388	522	571	553	386	536	551	518
SE	6	4	2	4	4	1	2	11	9	11	22	1
Range	520-664	312-399	414-609	484-632	303-595	409-611	500-644	535-574	338-441	490-587	529-573	303-664
Sample Size	29	24	387	89	86	849	143	3	10	8	2	1,630

Table 24. Estimated sex composition of Ayakulik River (Red L.) sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement			Number		
		Females	Males	Total	Percent	Females	Males	Females	Males	Total
22	5/24-5/30	0	0	0	44.2	55.8	428	542	970	
23	5/31-6/06	106	134	240	45.0	55.0	15,223	18,633	33,856	
24	6/07-6/13	115	125	240	47.5	52.5	15,974	17,645	33,619	
25	6/14-6/20	114	127	241	47.6	52.4	20,661	22,780	43,441	
26	6/21-6/27	128	118	246	50.8	49.2	5,913	5,730	11,643	
27	6/28-7/04	135	105	240	54.4	45.6	15,444	12,952	28,396	
28	7/05-7/11	120	120	240	49.7	50.3	4,652	4,710	9,362	
29	7/12-7/18	25	31	56	46.0	54.0	747	877	1,624	
30	7/19-7/25	91	149	240	39.7	60.3	10,308	15,685	25,993	
31	7/26-8/01	112	128	240	46.1	53.9	1,624	1,898	3,522	
32	8/02-8/08	0	0	0	46.7	53.3	1,789	2,044	3,833	
33	8/09-8/15	0	0	0	46.7	53.3	762	871	1,633	
<b>Total</b>		<b>946</b>	<b>1,037</b>	<b>1,983</b>	<b>47.3</b>	<b>52.7</b>	<b>93,526</b>	<b>104,366</b>	<b>197,892</b>	

Table 25. Estimated age composition of South Olga Lakes (Upper Station) early-run sockeye salmon escapement by week, 2003.

Week	Sample Size		Age								Total
			0.2	1.1	1.2	2.1	1.3	2.2	2.3	3.2	
22 5/24-5/30	0	Percent	0.0	1.9	27.8	2.4	0.0	58.5	9.0	0.5	100.0
		Numbers	0	114	1,678	142	0	3,526	540	28	6,028
23 5/31-6/06	212	Percent	0.2	5.4	27.9	4.1	0.1	53.5	8.0	0.7	100.0
		Numbers	40	976	5,044	742	20	9,661	1,452	125	18,060
24 6/07-6/13	216	Percent	0.7	15.2	28.3	9.3	0.4	39.8	5.2	1.1	100.0
		Numbers	112	2,370	4,420	1,460	56	6,216	808	175	15,616
25 6/14-6/20	213	Percent	0.2	17.3	28.9	12.4	0.1	37.8	3.0	0.3	100.0
		Numbers	30	2,434	4,050	1,736	17	5,307	418	43	14,036
26 6/21-6/27	222	Percent	0.3	18.6	28.5	11.8	0.3	36.3	3.6	0.4	100.0
		Numbers	39	2,117	3,239	1,346	39	4,133	414	45	11,371
27 6/28-7/04	217	Percent	0.1	21.0	32.0	9.8	0.1	32.2	4.4	0.4	100.0
		Numbers	6	1,244	1,897	579	6	1,905	261	24	5,921
28 7/05-7/11	5	Percent	0.4	34.4	40.7	1.3	0.1	22.7	0.4	0.0	100.0
		Numbers	16	1,532	1,810	57	5	1,011	17	1	4,451
29 7/12-7/15	102	Percent	2.0	18.2	46.8	2.7	0.7	29.7	0.0	0.0	100.0
		Numbers	14	126	324	18	5	206	0	0	692
Total	1,187	Percent	0.3	14.3	29.5	8.0	0.2	42.0	5.1	0.6	100.0
		Numbers	256	10,912	22,461	6,080	148	31,966	3,911	441	76,175

Table 26. Length composition of South Olga Lakes (Upper Station) early-run sockeye salmon escapement samples by age and sex, 2003.

	Age								
	0.2	1.1	1.2	1.3	2.1	2.2	2.3	3.2	Total
<b>Females</b>									
Mean Length (mm)	437	412	486	545	401	499	531	486	494
SE	5	34	2	-	16	1	5	5	1
Range	432-442	335-476	391-573	545-545	358-472	406-572	483-586	472-495	335-586
Sample Size	2	4	205	1	6	315	32	4	569
<b>Males</b>									
Mean Length (mm)	392	341	505	522	369	508	539	521	430
SE	-	2	4	-	3	3	5	18	4
Range	392-392	262-468	388-605	522-522	301-460	434-607	498-570	504-539	262-607
Sample Size	1	155	103	1	94	120	22	2	498
<b>All Fish</b>									
Mean Length (mm)	422	343	492	533	371	501	534	498	464
SE	15	2	2	12	3	1	3	9	2
Range	392-442	262-476	388-605	522-545	301-472	406-607	483-586	472-539	262-607
Sample Size	3	159	308	2	100	435	54	6	1,067

Table 27. Estimated sex composition of South Olga Lakes (Upper Station) early-run sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement				
		Females	Males	Total	Percent	Females	Males	Number	
						Females	Males	Total	
22	5/24-5/30	0	0	0	78.8	21.3	4,747	1,281	6,028
23	5/31-6/06	189	51	240	73.3	26.7	13,237	4,823	18,060
24	6/07-6/13	134	106	240	57.4	42.6	8,959	6,657	15,616
25	6/14-6/20	116	124	240	49.5	50.5	6,944	7,092	14,036
26	6/21-6/27	110	142	252	44.0	56.0	5,001	6,370	11,371
27	6/28-7/04	98	142	240	38.7	61.3	2,294	3,627	5,921
28	7/05-7/11	1	4	5	25.3	74.7	1,125	3,326	4,451
29	7/12-7/15	57	56	113	40.6	59.4	281	411	692
<b>Total</b>		<b>705</b>	<b>625</b>	<b>1,330</b>	<b>55.9</b>	<b>44.1</b>	<b>42,590</b>	<b>33,585</b>	<b>76,175</b>

Table 28. Estimated age composition of South Olga Lakes (Upper Station) late-run sockeye salmon escapement by week, 2003.

Week	Sample Size	Age											Total	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	2.3	3.2			
29 7/12-7/18	102	Percent	3.0	7.9	0.0	49.9	3.9	1.0	34.3	0.0	0.0	0.0	100.0	
		Numbers	8	22	0	140	11	3	96	0	0	0	281	
30 7/19-7/25	224	Percent	8.0	3.6	0.4	44.6	1.8	0.5	39.3	0.0	1.8	0.0	100.0	
		Numbers	377	170	21	2,104	86	21	1,850	0	83	0	4,712	
31 7/26-8/01	247	Percent	12.3	2.1	0.0	31.3	4.2	0.4	46.4	0.1	1.4	1.8	100.0	
		Numbers	875	151	3	2,228	297	29	3,306	6	98	127	7,122	
32 8/02-8/08	222	Percent	14.1	1.6	0.0	22.2	4.5	0.4	50.9	0.6	1.9	3.8	100.0	
		Numbers	5,366	603	0	8,467	1,711	166	19,407	226	724	1,455	38,125	
33 8/09-8/15	0	Percent	14.9	1.4	0.0	17.6	4.5	0.5	53.2	0.9	2.3	5.0	100.0	
		Numbers	7,253	659	0	8,572	2,198	220	25,934	440	1,099	2,418	48,792	
Total		Percent	14.0	1.6	0.0	21.7	4.3	0.4	51.1	0.7	2.0	4.0	100.0	
		Numbers	13,879	1,606	24	21,511	4,302	439	50,594	672	2,004	4,000	99,032	

Note: Age composition estimates represent escapement from week 29-33. The total Upper Station late-run sockeye salmon escapement was 200,894.

Table 29. Length composition of South Olga Lakes (Upper Station) late-run sockeye salmon escapement samples by age and sex, 2003.

	Age											
	0.2	0.3	1.1	1.2	1.3	2.1	2.2	2.3	3.1	3.2	Total	
<b>Females</b>												
Mean Length (mm)	489	554	0	529	535	418	535	555	422	537	528	
SE	4	-	-	2	-	5	2	14	-	4	2	
Range	444-537	554-554	0-0	416-586	535-535	405-434	408-595	495-610	422-422	519-553	405-610	
Sample Size	31	1	0	134	1	5	191	7	1	8	379	
<b>Males</b>												
Mean Length (mm)	496	0	353	544	578	400	553	578	368	542	522	
SE	4	-	5	2	9	6	3	21	-	23	3	
Range	427-586	0-0	320-414	439-608	562-592	343-460	397-621	528-651	368-368	451-619	320-651	
Sample Size	53	0	24	133	3	24	165	5	1	7	415	
<b>All Fish</b>												
Mean Length (mm)	494	554	353	536	567	403	543	565	395	539	525	
SE	3	-	5	2	12	5	2	12	27	10	2	
Range	427-586	554-554	320-414	416-608	535-592	343-460	397-621	495-651	368-422	451-619	320-651	
Sample Size	84	1	24	267	4	29	356	12	2	15	794	

Table 30. Estimated sex composition of South Olga Lakes (Upper Station) late-run sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement					
		Females	Males	Total	Percent	Females	Males	Number	Females	Males
29	7/12-7/18	57	56	113	50.3	49.7		141	140	281
30	7/19-7/25	104	145	249	41.9	58.1		1,973	2,739	4,712
31	7/26-8/01	112	149	261	44.1	55.9		3,137	3,985	7,122
32	8/02-8/08	141	113	254	51.2	48.8		19,526	18,599	38,125
33	8/09-8/15	0	0	0	55.5	44.5		27,085	21,707	48,792
Total		414	463	877	52.4	47.6		51,862	47,170	99,032

Note: Age composition estimates represent escapement from week 29-33. The total Upper Station late-run sockeye salmon escapement was 200,894.

Table 31. Estimated age composition of Frazer Lake sockeye salmon escapement by week, 2003.

Week	Sample Size	Age										Total
		1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	2.4		
25 6/14-6/20	154	Percent	10.9	0.0	48.3	0.1	32.3	3.8	0.0	4.0	0.6	100.0
		Numbers	178	0	788	1	527	62	0	66	10	1,632
26 6/21-6/27	201	Percent	17.3	0.4	50.6	0.7	22.8	2.7	0.0	5.2	0.1	100.0
		Numbers	1,966	48	5,732	82	2,583	310	0	595	17	11,333
27 6/28-7/04	198	Percent	19.1	0.8	49.8	0.5	24.9	1.9	0.1	3.0	0.0	100.0
		Numbers	5,729	255	14,934	136	7,470	569	21	899	0	30,013
28 7/05-7/11	201	Percent	14.8	0.1	57.6	0.0	20.8	4.2	0.4	2.2	0.0	100.0
		Numbers	6,531	25	25,407	13	9,167	1,840	187	966	0	44,137
29 7/12-7/18	199	Percent	8.2	0.0	47.4	0.0	34.4	6.7	0.1	3.2	0.0	100.0
		Numbers	4,473	0	25,820	0	18,731	3,664	62	1,722	0	54,472
30 7/19-7/25	187	Percent	12.5	0.0	50.6	0.0	27.3	7.3	0.0	2.3	0.0	100.0
		Numbers	5,038	0	20,461	0	11,059	2,955	0	947	0	40,459
31 7/26-8/01	191	Percent	16.3	0.0	54.9	0.0	18.2	9.5	0.0	1.1	0.0	100.0
		Numbers	1,935	0	6,512	0	2,164	1,126	0	125	0	11,862
32 8/02-8/08	112	Percent	16.1	0.0	45.5	0.0	26.0	12.3	0.0	0.1	0.0	100.0
		Numbers	1,237	0	3,492	0	1,998	943	0	5	0	7,676
33 8/09-8/15	0	Percent	16.1	0.0	44.6	0.0	26.8	12.5	0.0	0.0	0.0	100.0
		Numbers	15	0	42	0	25	12	0	0	0	95
Total	1,443	Percent	13.4	0.2	51.2	0.1	26.6	5.7	0.1	2.6	0.0	100.0
		Numbers	27,103	329	103,188	232	53,725	11,480	269	5,326	27	201,679

Table 32. Length composition of Frazer Lake sockeye salmon escapement samples by age and sex, 2003.

	Age										
	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	Total	
<b>Females</b>											
Mean Length (mm)	423	472	570	0	433	496	565	0	435	500	
SE	24	10	-	-	8	2	5	-	20	3	
Range	355-460	462-482	570-570	0-0	400-469	420-560	509-608	0-0	415-455	355-608	
Sample Size	4	2	1	0	9	195	27	0	2	240	
<b>Males</b>											
Mean Length (mm)	339	527	567	600	355	508	553	486	363	376	
SE	2	-	7	-	1	3	9	-	3	2	
Range	272-405	527-527	561-574	600-600	240-475	410-586	481-599	486-486	275-427	240-600	
Sample Size	206	1	2	1	715	151	14	1	79	1170	
<b>All Fish</b>											
Mean Length (mm)	340	490	568	600	356	501	561	486	365	397	
SE	2	19	4	-	1	2	5	-	3	2	
Range	272-460	462-527	561-574	600-600	240-475	410-586	481-608	486-486	275-455	240-608	
Sample Size	210	3	3	1	724	346	41	1	81	1,410	

Table 33. Estimated sex composition of Frazer Lake sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement				
		Females	Males	Total	Percent	Females	Males	Number	Females
									Males
25	6/14-6/20	43	147	190	22.1	77.9	361	1,271	1,632
26	6/21-6/27	32	208	240	15.9	84.1	1,801	9,532	11,333
27	6/28-7/04	44	196	240	16.8	83.2	5,044	24,969	30,013
28	7/05-7/11	21	219	240	11.4	88.6	5,051	39,086	44,137
29	7/12-7/18	77	163	240	26.7	73.3	14,545	39,927	54,472
30	7/19-7/25	46	194	240	21.7	78.3	8,767	31,692	40,459
31	7/26-8/01	38	202	240	16.4	83.6	1,943	9,919	11,862
32	8/02-8/08	27	133	160	16.8	83.2	1,290	6,386	7,676
33	8/09-8/15	0	0	0	16.9	83.1	16	79	95
Total		328	1,462	1,790	19.2	80.8	38,819	162,860	201,679

Table 34. Estimated age composition of Saltery Lake sockeye salmon escapement by week, 2003.

Week	Sample Size	Age										Total
		0.2	1.2	2.1	1.3	2.2	2.3	3.2	2.4	3.3		
27 6/28-7/04	0	Percent	0.0	11.1	0.7	54.1	13.3	20.0	0.0	0.7	0.0	100.0
		Numbers	0	1,026	68	4,995	1,232	1,848	0	68	0	9,238
28 7/05-7/11	135	Percent	0.0	11.2	0.7	53.6	13.7	20.1	0.0	0.7	0.0	100.0
		Numbers	0	1,005	63	4,813	1,230	1,809	0	63	2	8,985
29 7/12-7/18	260	Percent	0.1	12.3	0.1	45.5	18.8	22.5	0.1	0.2	0.4	100.0
		Numbers	12	1,285	13	4,745	1,960	2,347	6	19	37	10,424
30 7/19-7/25	108	Percent	1.3	10.8	0.0	45.4	15.2	25.3	0.6	0.6	0.7	100.0
		Numbers	177	1,484	0	6,235	2,090	3,482	88	88	98	13,744
31 7/26-8/01	34	Percent	0.0	5.9	0.0	58.8	14.7	20.6	0.0	0.0	0.0	100.0
		Numbers	0	406	0	4,055	1,014	1,419	0	0	0	6,894
32 8/02-8/08	0	Percent	0.0	5.9	0.0	58.8	14.7	20.6	0.0	0.0	0.0	100.0
		Numbers	0	152	0	1,522	380	533	0	0	0	2,587
Total	537	Percent	0.4	10.3	0.3	50.8	15.2	22.0	0.2	0.5	0.3	100.0
		Numbers	189	5,359	144	26,364	7,906	11,438	95	239	137	51,872

Note: Age composition estimates represent escapement from week 27-32. The total Saltery Lake sockeye salmon escapement was 57,993.

Table 35. Length composition of Saltery Lake sockeye salmon escapement samples by age and sex, 2003.

	Age									
	0.2	1.2	1.3	2.1	2.2	2.3	2.4	3.2	3.3	Total
<b>Females</b>										
Mean Length (mm)	0	498	547	0	500	545	0	0	530	530
SE	-	3	2	-	3	3	-	-	-	2
Range	0-0	461-532	481-600	0-0	445-546	511-594	0-0	0-0	530-530	445-600
Sample Size	0	40	124	0	58	60	0	0	1	283
<b>Males</b>										
Mean Length (mm)	529	519	580	322	521	566	567	510	566	562
SE	11	6	2	-	7	3	3	-	-	2
Range	519-540	480-609	511-665	322-322	427-599	491-623	565-570	510-510	566-566	322-665
Sample Size	2	22	130	1	31	62	2	1	1	252
<b>All Fish</b>										
Mean Length (mm)	529	505	564	322	507	556	567	510	548	545
SE	11	3	2	-	3	2	3	-	18	2
Range	519-540	461-609	481-665	322-322	427-599	491-623	565-570	510-510	530-566	322-665
Sample Size	2	62	254	1	91	122	2	1	2	537

Table 36. Estimated sex composition of Saltery Lake sockeye salmon escapement by week, 2003.

Week	Dates	Sample Size			Escapement					
		Females	Males	Total	Percent	Males	Females	Males	Total	
27	6/28-7/04	0	0	0	48.1	51.9	4,444	4,794	9,238	
28	7/05-7/11	76	82	158	48.6	51.4	4,363	4,622	8,985	
29	7/12-7/18	168	125	293	55.6	44.4	5,791	4,633	10,424	
30	7/19-7/25	64	56	120	52.6	47.4	7,229	6,515	13,744	
31	7/26-8/01	15	22	37	40.5	59.5	2,795	4,099	6,894	
32	8/02-8/08	0	0	0	40.5	59.5	1,049	1,538	2,587	
Total		323	285	608	49.5	50.5	25,671	26,201	51,872	

Note: Age composition estimates represent escapement from week 27-32. The total Saltery Lake sockeye salmon escapement was 57,993.

Table 37. Estimated age composition of Akalura Lake sockeye salmon escapement by week, 2003.

Week	Sample Size	Age						Total
		1.1	1.2	1.3	2.2	2.3		
26 6/21-6/27	8	Percent Numbers	0.0 0	37.5 10	37.5 10	12.5 3	12.5 3	100.0 26
27 6/28-7/04	0	Percent Numbers	0.0 0	25.3 1	25.3 1	8.4 0	41.0 2	100.0 4
28 7/05-7/11	0	Percent Numbers	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
29 7/12-7/18	1	Percent Numbers	0.0 0	1.0 0	1.0 0	0.4 0	97.6 26	100.0 27
31 7/26-8/01	0	Percent Numbers	6.3 0	0.0 0	0.0 0	40.8 1	52.9 2	100.0 3
32 8/02-8/08	0	Percent Numbers	7.8 1	0.0 0	0.0 0	51.0 4	41.2 3	100.0 8
33 8/09-8/15	17	Percent Numbers	11.4 17	0.1 0	0.1 0	74.8 109	13.6 20	100.0 145
34 8/16-8/22	0	Percent Numbers	5.5 273	7.2 359	3.6 179	74.8 3,751	9.0 453	100.0 5,015
35 8/23-8/29	15	Percent Numbers	0.0 0	13.3 93	6.6 47	73.3 515	6.7 47	100.0 702
Total	41	Percent Numbers	4.9 291	7.8 463	4.0 237	73.9 4,383	9.4 556	100.0 5,930

Note: Age composition estimates represent escapement from week 26-35. The total Akalura Lake sockeye salmon escapement was 7,220.

Table 38. Length composition of Akalura Lake sockeye salmon escapement samples by age and sex, 2003.

	Age					
	1.1	1.2	1.3	2.2	2.3	Total
<b>Females</b>						
Mean Length (mm)	442	544	554	530	562	533
SE	18	8	13	6	28	6
Range	425-460	528-565	535-580	485-595	500-632	425-632
Sample Size	2	5	3	24	4	38
<b>Males</b>						
Mean Length (mm)	0	0	595	560	665	606
SE	-	-	-	-	-	31
Range	0-0	0-0	595-595	560-560	665-665	560-665
Sample Size	0	0	1	1	1	3
<b>All Fish</b>						
Mean Length (mm)	442	544	564	531	582	538
SE	18	8	14	6	30	7
Range	425-460	528-565	535-595	485-595	500-665	425-665
Sample Size	2	5	4	25	5	41

Table 39a. Age composition of Buskin Lake sockeye salmon escapement samples, 2003.

Weeks	Dates		Age								Total	
			1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4		
22-23	pre- 6/1	Numbers	0	14	22	0	0	4	27	0	67	
		Percent	0.0	20.9	32.8	0.0	0.0	6.0	40.3	0.0		
23-25	6/1-6/15	Numbers	1	49	50	0	0	32	39	1	172	
		Percent	0.6	28.5	29.1	0.0	0.0	18.6	22.7	0.6		
25-27	6/16-6/30	Numbers	1	34	51	2	2	56	35	3	184	
		Percent	0.5	18.5	27.7	1.1	1.1	30.4	19.0	1.6		
27-29	7/1-7/15	Numbers	4	27	27	0	6	53	30	1	148	
		Percent	2.7	18.2	18.2	0.0	4.1	35.8	20.3	0.7		
29-31	7/16-7/31	Numbers	2	12	20	3	2	34	43	2	118	
		Percent	1.7	10.2	16.9	2.5	1.7	28.8	36.4	1.7		
Total		Numbers	8	136	170	5	10	179	174	7	689	
		Percent	1.2	19.7	24.7	0.7	1.5	26.0	25.3	1.0		

Table 39b. Age composition of Lake Louise sockeye salmon escapement samples, 2003.

Weeks	Dates		Age								Total	
			1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4		
23-25	6/1-6/15	Numbers	0	2	3	0	0	3	3	0	11	
		Percent	0.0	18.2	27.3	0.0	0.0	27.3	27.3	0.0		
25-27	6/16-6/30	Numbers	0	19	6	0	0	6	3	0	34	
		Percent	0.0	55.9	17.6	0.0	0.0	17.6	8.8	0.0		
27-29	7/1-7/15	Numbers	0	51	14	0	0	9	13	0	87	
		Percent	0.0	58.6	16.1	0.0	0.0	10.3	14.9	0.0		
29-31	7/16-7/31	Numbers	3	9	15	0	1	3	4	0	35	
		Percent	8.6	25.7	42.9	0.0	2.9	8.6	11.4	0.0		
31-33	8/1-8/15	Numbers	0	15	10	0	0	11	10	0	46	
		Percent	0.0	32.6	21.7	0.0	0.0	23.9	21.7	0.0		
Total		Numbers	3	96	48	0	1	32	33	0	213	
		Percent	1.4	45.1	22.5	0.0	0.5	15.0	15.5	0.0		

Note: Buskin River and Lake Louise sockeye salmon scales are collected by the ADF&G Division of Sport Fisheries. Lake Louise outlet creek is a tributary to the Buskin River.

Table 40. Kodiak Management Area commercial salmon harvest by species<sup>a</sup> and year, 1970 through 2003.

Year	Species					
	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	1,089	917,047	66,424	12,036,598	919,972	13,941,130
1971	920	478,479	22,844	4,334,492	1,541,444	6,378,183
1972	1,300	222,408	16,587	2,478,064	1,163,426	3,881,785
1973	800	167,341	3,573	511,708	317,921	1,001,343
1974	545	418,761	13,631	2,647,244	249,294	3,329,475
1975	101	136,418	23,659	2,942,801	84,431	3,187,410
1976	766	641,484	23,714	11,077,992	740,495	12,484,451
1977	585	623,468	27,920	6,252,405	1,072,313	7,976,691
1978	3,228	1,071,782	48,795	15,004,065	814,345	16,942,215
1979	1,907	630,756	140,629	11,285,809	358,336	12,417,437
1980	529	651,394	139,154	17,290,615	1,075,557	19,157,249
1981	1,418	1,288,980	121,544	10,336,829	1,345,328	13,094,099
1982	1,214	1,203,787	344,823	8,089,780	1,262,587	10,902,191
1983	3,839	1,231,989	157,612	4,603,371	1,085,165	7,081,976
1984	4,657	1,950,639	229,524	10,844,293	649,092	13,678,205
1985	4,970	1,842,731	284,166	7,334,825	430,757	9,897,449
1986	4,381	3,188,046	168,690	11,807,727	1,134,372	16,303,216
1987	4,613	1,794,773	192,540	5,075,101	682,023	7,749,050
1988	22,374	2,699,014	303,298	14,559,038	1,426,410	19,010,134
1989 <sup>b</sup>	4,851	2,628,565	141,433	22,648,511	835,734	26,259,094
1990	18,808	5,248,400	293,819	5,983,812	577,750	12,122,589
1991	22,234	5,704,100	324,860	16,642,841	1,029,071	23,723,106
1992	24,299	4,167,871	280,085	3,310,644	679,559	8,462,458
1993	41,029	4,378,886	313,467	34,019,420	588,331	39,341,133
1994	22,576	2,877,999	296,311	8,162,564	738,856	12,098,306
1995	18,704	4,488,502	307,795	42,849,309	1,522,810	49,187,120
1996	13,071	4,970,362	201,836	3,486,930	543,751	9,215,950
1997	18,735	2,506,427	381,099	11,035,134	520,331	14,461,726
1998	17,349	3,623,712	425,152	22,062,465	316,115	26,444,793
1999	18,299	4,653,057	296,979	11,898,382	913,867	17,780,584
2000	12,293	2,906,441	333,052	9,927,397	1,194,448	14,373,631
2001	23,843	2,659,637	409,193	19,567,163	1,053,763	23,713,599
2002	19,320	1,831,014	503,615	18,328,638	650,178	21,332,765
2003	18,603	4,053,847	351,767	14,067,235	1,151,885	19,643,337
Average						
1998-2002	18,221	3,134,772	393,598	16,356,809	825,674	20,729,074
1993-2002	20,522	3,489,604	346,850	18,133,740	804,245	22,794,961

<sup>a</sup> Harvest numbers include personal use with commercial gear and ADFG test fisheries.

<sup>b</sup> Catch numbers represent the projected harvest if the Exxon Valdez oil spill had not eliminated a major portion of the commercial fishery.

Table 41. Commercial salmon catch numbers by species, district, and section, Kodiak Management Area, 2003.

District	Section	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
<b>Afognak District</b>											
S.W.AFOGNAK & RASPBERRY STRAITS SECTIONS (251-10,11,12,20)		5,285	45,496	280,260	1,481,441	21,241	156,525	823,111	2,808,968	49,247	362,666
N.W. AFOGNAK SECTION (251-30,40,41,50)		73	844	63,853	281,169	711	4,009	34,311	123,855	1,623	11,801
SHUYAK ISLAND SECTION (251-60,70,81)		0	0	0	0	1,850	15,013	4,866	15,569	0	0
PERENOSA BAY SECTION (251-82,83,84)		12	191	50,963	200,134	110	831	59,494	197,264	98	699
PAULS BAY SECTION (251-85)		2	43	9,699	41,052	2,006	17,678	66	192	65	514
N.E.AFOGNAK SECTION (251-90,252-10,20)		84	807	6,689	35,716	7,766	60,915	676,515	2,438,295	10,647	72,568
IZHUT BAY SECTION (252-30)		531	3,255	7,829	41,480	66,448	500,593	1,322,510	4,620,850	216,684	1,441,244
DUCK BAY SECTION (252-31)		236	2,700	16,513	89,345	55,353	386,103	2,416,687	8,669,041	126,657	813,020
KITOI BAY SECTION (252-32)		31	285	3,895	19,636	22,588	173,058	1,794,325	6,570,041	122,864	787,927
S.E.AFOGNAK (252-33,34,35)		1	50	740	4,154	2,337	17,785	393,666	1,378,773	531	3,598
<b>Subtotal</b>		6,255	53,671	440,441	2,194,127	180,410	1,332,510	7,525,551	26,822,848	528,416	3,494,037
<b>Northwest Kodiak District</b>											
CENTRAL, TERROR BAY, INNER UGANIK, SPIRIDON, ZACHAR, & UYAK BAY SECTIONS COMBINED (253-11,12,13,14,31-35) (254-10,20,30,40,50)		6,566	67,044	2,309,349	12,490,172	104,231	848,477	4,199,430	14,786,649	234,757	1,728,493
NORTH CAPE, ANTON LARSEN, SHERATIN, & KIZHUYAK SECTIONS COMBINED (259-35,36,37,38,39)		639	5,484	65,597	345,996	7,771	56,857	316,892	1,197,210	27,764	197,380
<b>Subtotal</b>		7,205	72,528	2,374,946	12,836,168	112,002	905,334	4,516,322	15,983,859	262,521	1,925,873

-Continued-

Table 41. (page 2 of 3)

District	Section	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		no.	lbs	no.	lbs	no.	lbs	no.	lbs	no.	lbs
<b>Southwest Kodiak District</b>											
INNER KARLUK SECTION (255-10)		634	8,066	65,147	327,575	49	326	11,324	39,279	8,830	63,238
OUTER KARLUK SECTION (255-20)		731	9,594	516,920	2,673,454	22,324	188,205	109,367	362,426	19,592	147,444
HALIBUT BAY SECTION (256-25,30)		5	142	3,515	21,543	1,144	9,614	20,567	64,231	81	600
INNER & OUTER AYAKULIK SECTIONS (256-10,15,20)		0	0	100	531	40	307	0	0	0	0
<b>Subtotal</b>		<b>1,370</b>	<b>17,802</b>	<b>585,682</b>	<b>3,023,103</b>	<b>23,557</b>	<b>198,452</b>	<b>141,258</b>	<b>465,936</b>	<b>28,503</b>	<b>211,282</b>
<b>Alitak Bay District</b>											
CAPE ALITAK AND HUMPY-DEADMAN SECTIONS (257-10,20,50,60,70)		288	6,194	112,575.00	659,013	7,554	60,187	407,335	1,307,320	24,733	171,977
ALITAK BAY, MOSER BAY, OLGA BAY, AND OUTER UPPER STATION SECTIONS		13	316	233,221	1,297,580	5,075	49,706	90,615	356,817	7,176	52,464
<b>Subtotal</b>		<b>301</b>	<b>6,510</b>	<b>345,796</b>	<b>1,956,593</b>	<b>12,629</b>	<b>109,893</b>	<b>497,950</b>	<b>1,664,137</b>	<b>31,909</b>	<b>224,441</b>
<b>Eastside Kodiak District</b>											
SEVEN RIVERS SECTION (258-70,80,83,85,90)		229	3,022	12,866	75,012	3,496	24,102	129,726	504,928	6,268	47,523
TWO-HEADED SECTION (258-54,55,60)		185	2,333	29,056	166,764	1,229	9,093	163,304	585,705	4,448	33,910
SITKALIDAK SECTION (258-10,20,30,40,51,52,53)		712	8,492	53,913	305,200	12,086	81,100	770,695	2,816,666	56,614	442,263
INNER & OUTER UGAK (259-40,41,42)		815	11,708	43,982	243,717	409	3,140	82,127	261,755	13,568	106,086
<b>Subtotal</b>		<b>1,941</b>	<b>25,555</b>	<b>139,817</b>	<b>790,693</b>	<b>17,220</b>	<b>117,435</b>	<b>1,145,852</b>	<b>4,169,054</b>	<b>80,898</b>	<b>629,782</b>

-Continued-

Table 41. (page 3 of 3)

District	Section	Species									
		Chinook		Sockeye		Coho		Pink		Chum	
		no.	lbs	no.	lbs	no.	lbs	no.	lbs	no.	lbs
<b>Northeast Kodiak District</b>											
MONASHKA MILLBAY SECTION (259-10)		0	0	13	67	74	524	16,378	57,679	30	217
INNER AND OUTER CHINIAK BAY SECTIONS (259-21,22,23,24,25)		12	34	358	1,797	139	961	51,213	193,707	15,082	112,875
<b>Subtotal</b>		<b>12</b>	<b>34</b>	<b>371</b>	<b>1,864</b>	<b>213</b>	<b>1,485</b>	<b>67,591</b>	<b>251,386</b>	<b>15,112</b>	<b>113,092</b>
<b>Mainland District</b>											
BIG RIVER SECTION (262-10,15)		3	43	185	1,025	82	603	2,337	8,848	18,023	144,739
HALLO BAY SECTION (262-20)		0	0	0	0	0	0	410	1,630	9,830	89,431
INNER AND OUTER KUKAK BAY SECTIONS (262-25,27,30)		5	99	906	5,346	1,749	14,409	10,064	40,761	136,339	1,120,771
DAKAVAK BAY SECTION (262-35,40,45,50,55)		117	1,766	23,915	140,542	573	4,257	20,047	67,102	9,474	71,981
KATMAI SECTION (262-60)		4	25	2,940	16,513	103	688	3,357	10,667	720	5,759
ALINCHAK BAY SECTION (262-65,70)		1	23	1,791	10,067	150	765	22,614	77,472	2,853	23,562
WIDE BAY SECTION (262-85)		0	0	0	0	0	0	37,381	136,756	77	620
CAPE IGVAK (262-75,80,90,95)		1,389	12,291	137,057	758,691	3,079	21,827	76,501	239,859	27,210	195,383
<b>Subtotal</b>		<b>1,519</b>	<b>14,247</b>	<b>166,794</b>	<b>932,184</b>	<b>5,736</b>	<b>42,549</b>	<b>172,711</b>	<b>583,095</b>	<b>204,526</b>	<b>1,652,246</b>
<b>GRAND TOTAL</b>		<b>18,603</b>	<b>190,347</b>	<b>4,053,847</b>	<b>21,734,732</b>	<b>351,767</b>	<b>2,707,658</b>	<b>14,067,235</b>	<b>49,940,315</b>	<b>1,151,885</b>	<b>8,250,753</b>

Note: Harvest numbers include personal use with commercial gear and ADF&G test fisheries.

Table 42. Estimated age composition of commercial sockeye salmon catches by sample area, Kodiak Management Area, 2003.

District	Catch Area	Dates	Sample Size	Age										
				0.1	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	
<b>Afognak District</b>														
Foul Bay THA		5/31-7/04	669	%	0.1			78.6		18.0	1.7		1.6	
				no.		44		40,222		9,205	867		844	
Waterfall THA		5/31-7/04	535	%	0.7			84.1		13.4	0.9		0.8	
				no.		379		42,865		6,841	479		390	
Southwest Afognak		6/7-8/29	2,484	%	0.2	0.0	1.2	16.1	1.2	33.8	30.3	0.1	12.5	
				no.		544	69	3,186	42,319	3,068	88,575	79,425	235	
											308	32,807	8,692	
<b>NW Kodiak District</b>														
Uganik-Viekoda Bays		5/31-9/19	4,064	%	0.6	0.0	1.4	14.8	0.3	25.9	34.9	0.0	16.3	
				no.		5,772	256	14,779	151,706	2,583	266,442	359,027	103	
Uyak Bay		5/31-9/19	4,219	%	0.1		0.5	8.3	0.1	8.8	59.0	0.0	12.5	
				no.		827		5,035	84,825	1,450	90,212	602,395	297	
Spiridon THA (Telrod Cove)		6/14-8/15	1,782	%	0.3			46.3	0.0	26.9	21.2	0.1	5.1	
				no.		849		120,346	68	69,908	55,122	151	13,201	
												68		
<b>SW Kodiak District</b>														
Inner and Outer Karluk Section <sup>a</sup>		5/31-7/4	1,108	%	0.8	0.5	0.5	12.7	5.9	5.5	53.3	0.8	14.7	
				no.		1,495	1,057	1,006	25,020	11,634	10,804	104,934	1,542	
												28,999	7,010	
<b>Alitak Bay District</b>														
Alitak		5/31-9/12	2,551	%	0.0	4.2	0.9	0.3	17.8	5.2	18.0	43.0	0.5	
				no.		27	4,765	1,048	352	20,013	5,867	20,218	48,437	542
Moser-Olga Bays		5/31-9/5	4,575	%	2.0	0.0	0.2	21.0	0.2	3.8	62.4	0.0	0.1	
				no.		4,531	52	558	48,624	528	8,723	144,844	63	
												192	14,694	
												9,012		
Total			21,987	%	0.0	0.6	0.1	0.8	17.9	0.8	17.8	43.4	0.1	
				no.		27	17,934	3,754	24,915	575,939	25,198	570,928	1,395,529	2,783
												3,296	393,777	
												152,059		

<sup>a</sup> Age composition estimates are not necessarily representative of the entire season's harvest for that commercial fishing section (see individual section tables).

Table 43. Estimated age composition of Foul Bay Terminal Harvest Area (251-41) sockeye salmon catch by week, 2003.

Week	Sample Size		Age					Total
			1.1	1.2	1.3	2.2	2.3	
23 5/31-6/06	330	Percent	0.0	75.9	19.4	0.9	3.7	100.0
		Numbers	4	13,040	3,332	153	641	17,170
24 6/07-6/13	307	Percent	0.2	78.7	18.7	1.2	1.1	100.0
		Numbers	38	13,774	3,274	209	199	17,494
25 6/14-6/20	32	Percent	0.0	81.2	15.8	3.0	0.0	100.0
		Numbers	1	11,120	2,159	417	4	13,702
26-27 6/21-7/04	0	Percent	0.0	81.3	15.6	3.1	0.0	100.0
		Numbers	0	2,287	440	88	0	2,815
Total	669	Percent	0.1	78.6	18.0	1.7	1.6	100.0
		Numbers	44	40,222	9,205	867	844	51,181

Table 44. Length composition of Foul Bay Terminal Harvest Area (251-41) sockeye salmon catch samples by age and sex, 2003.

	Age					
	1.1	1.2	1.3	2.2	2.3	Total
<b>Females</b>						
Mean Length (mm)	0	478	533	478	540	492
SE	-	2	4	-	4	2
Range	0-0	417-546	470-580	478-478	518-556	417-580
Sample Size	0	148	42	1	8	199
<b>Males</b>						
Mean Length (mm)	363	484	537	499	549	495
SE	-	1	3	17	9	2
Range	363-363	413-565	450-643	443-542	511-583	363-643
Sample Size	1	367	87	5	8	468
<b>All Fish</b>						
Mean Length (mm)	363	483	535	496	545	494
SE	-	1	3	14	5	1
Range	363-363	413-565	450-643	443-542	511-583	363-643
Sample Size	1	517	129	6	16	669

Table 45. Estimated sex composition of Foul Bay Terminal Harvest Area (251-41) sockeye salmon catch by week, 2003.

Week	Dates	Sample Size			Escapement			Number		
		Females	Males	Total	Percent	Females	Males	Females	Males	Total
23	5/31-6/06	155	243	398	37.7	62.3	6,472	10,698	17,170	
24	6/07-6/13	75	284	359	19.3	80.7	3,375	14,119	17,494	
25	6/14-6/20	1	39	40	3.1	96.9	427	13,275	13,702	
26-27	6/21-7/04	0	0	0	2.5	97.5	70	2,745	2,815	
<b>Total</b>		<b>231</b>	<b>566</b>	<b>797</b>	<b>20.2</b>	<b>79.8</b>	<b>10,347</b>	<b>40,834</b>	<b>51,181</b>	

Table 46. Estimated age composition of Waterfall Bay Terminal Harvest Area (251-84) sockeye salmon catch by week, 2003.

Week	Sample Size		Age					Total
			1.1	1.2	1.3	2.2	2.3	
23 5/31-6/06	293	Percent	0.7	84.3	13.0	1.0	1.0	100.0
		Numbers	201	24,804	3,816	301	301	29,423
24 6/07-6/13	242	Percent	0.8	83.9	14.0	0.8	0.4	100.0
		Numbers	96	9,700	1,625	96	48	11,563
25-27 6/14-7/4	0	Percent	0.8	83.9	14.0	0.8	0.4	100.0
		Numbers	82	8,362	1,400	82	41	9,968
Total	535	Percent	0.7	84.1	13.4	0.9	0.8	100.0
		Numbers	379	42,865	6,841	479	390	50,954

Table 47. Length composition of Waterfall Bay Terminal Harvest Area (251-84) sockeye salmon catch samples by age and sex, 2003.

	Age					
	1.1	1.2	1.3	2.2	2.3	Total
<b>Females</b>						
Mean Length (mm)	0	471	521	512	496	479
SE	-	2	5	5	-	2
Range	0-0	405-555	450-565	500-522	496-496	405-565
Sample Size	0	230	39	4	1	274
<b>Males</b>						
Mean Length (mm)	360	484	527	484	536	488
SE	7	2	6	-	43	2
Range	349-376	402-587	446-571	484-484	455-600	349-600
Sample Size	4	220	33	1	3	261
<b>All Fish</b>						
Mean Length (mm)	360	477	524	507	526	483
SE	7	1	4	7	32	1
Range	349-376	402-587	446-571	484-522	455-600	349-600
Sample Size	4	450	72	5	4	535

Table 48. Estimated sex composition of Waterfall Bay Terminal Harvest Area (251-84) sockeye salmon catch by week, 2003.

Week	Dates	Sample Size			Escapement					
		Females	Males	Total	Percent		Number			
					Females	Males	Females	Males	Total	
23	5/31-6/06	164	161	325	50.5	49.5	14,847	14,576	29,423	
24	6/07-6/13	148	132	280	52.9	47.1	6,112	5,451	11,563	
25-27	6/14-7/4	0	0	0	52.9	47.1	5,269	4,699	9,968	
Total		312	293	605	51.5	48.5	26,228	24,726	50,954	

Table 49. Estimated age composition of Southwest Afognak Section (251-10, 20) commercial sockeye salmon catch by week, 2003.

Week	Sample Size	Age													Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	3.3		
24 6/07-6/13	0	Percent	0.0	0.0	2.0	18.7	2.6	17.2	45.7	0.3	0.0	10.6	2.6	0.3	100.0
		Numbers	0	0	137	1,273	176	1,175	3,114	20	0	725	176	20	6,816
25 6/14-6/20	348	Percent	0.0	0.0	1.9	18.6	2.5	17.9	45.2	0.3	0.0	10.7	2.5	0.3	100.0
		Numbers	8	0	510	4,879	660	4,682	11,849	67	0	2,806	660	75	26,197
26 6/21-6/27	352	Percent	0.2	0.0	1.4	19.2	2.0	23.2	40.3	0.1	0.0	11.0	2.0	0.4	100.0
		Numbers	63	7	361	4,883	511	5,884	10,247	26	7	2,801	503	110	25,403
27 6/28-7/04	581	Percent	0.4	0.1	0.9	23.6	1.4	29.2	31.5	0.3	0.1	10.0	1.4	1.0	100.0
		Numbers	167	59	405	10,529	621	13,041	14,070	117	59	4,475	642	441	44,625
28 7/05-7/11	346	Percent	0.5	0.0	1.0	22.4	0.5	35.1	28.6	0.0	0.0	10.2	1.4	0.4	100.0
		Numbers	148	3	312	6,975	152	10,943	8,922	6	3	3,186	421	133	31,205
29 7/12-7/18	350	Percent	0.0	0.0	1.5	12.5	1.0	51.3	16.1	0.0	0.1	14.6	1.7	1.4	100.0
		Numbers	0	0	1,238	10,526	826	43,301	13,581	0	83	12,343	1,404	1,156	84,457
30 7/19-7/25	0	Percent	0.0	0.0	0.5	8.8	0.4	36.6	27.2	0.0	0.5	18.0	4.7	3.3	100.0
		Numbers	0	0	64	1,065	43	4,425	3,285	0	56	2,177	569	399	12,082
31 7/26-8/01	296	Percent	0.1	0.0	0.1	6.9	0.1	25.8	36.1	0.0	0.6	18.4	8.1	3.8	100.0
		Numbers	14	0	17	866	9	3,259	4,551	0	74	2,325	1,016	483	12,614
32 8/02-8/08	0	Percent	0.6	0.0	0.6	7.0	0.3	13.7	48.3	0.0	0.2	12.4	15.3	1.6	100.0
		Numbers	59	0	59	691	30	1,354	4,778	0	24	1,227	1,511	159	9,893
33 8/09-8/15	211	Percent	0.9	0.0	0.9	7.1	0.5	6.0	56.1	0.0	0.0	8.5	19.9	0.2	100.0
		Numbers	52	0	52	403	26	342	3,183	0	1	481	1,129	9	5,678
34-35 8/16-8/29	0	Percent	0.9	0.0	0.9	7.1	0.5	5.2	56.9	0.0	0.0	8.1	20.4	0.0	100.0
		Numbers	31	0	31	230	15	169	1,843	0	0	261	660	0	3,241
Total	2,484	Percent	0.2	0.0	1.2	16.1	1.2	33.8	30.3	0.1	0.1	12.5	3.3	1.1	100.0
		Numbers	544	69	3,186	42,319	3,068	88,575	79,425	235	308	32,807	8,692	2,984	262,211

Table 50. Estimated age composition of Uganik-Viekoda Bays (253-11, 12, 13, 14, 31, 32, 33, 35) commercial sockeye salmon catch by week, 2003.

Week	Sample Size	Age														Total	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	4.2	4.3	
23 5/31-6/06	345 Percent Numbers	0.0 0	0.0 0	2.0 594	15.1 4,412	0.0 0	26.1 7,635	29.6 8,653	0.0 0	0.6 170	20.9 6,108	3.8 1,103	0.0 0	2.0 594	0.0 0	0.0 0	100.0 29,269
24 6/07-6/13	480 Percent Numbers	0.0 33	0.1 93	1.6 1,209	19.0 14,390	0.1 66	24.1 18,234	29.1 22,034	0.1 93	0.3 224	20.3 15,382	3.0 2,293	0.0 0	2.1 1,582	0.0 0	0.0 33	100.0 75,668
25 6/14-6/20	253 Percent Numbers	0.4 261	0.1 53	1.3 807	21.5 13,713	0.7 436	28.0 17,893	21.7 13,860	0.0 10	0.0 10	22.1 14,112	2.8 1,780	0.0 0	1.0 630	0.1 86	0.3 218	100.0 63,869
26 6/21-6/27	348 Percent Numbers	0.4 215	0.2 101	1.4 737	20.8 10,786	0.4 227	31.9 16,556	18.4 9,544	0.0 0	0.0 0	23.1 11,996	2.4 1,245	0.1 48	0.4 183	0.4 202	0.2 114	100.0 51,954
27 6/28-7/04	280 Percent Numbers	0.0 19	0.0 9	1.6 1,822	20.3 22,653	0.0 19	37.5 41,859	17.4 19,442	0.0 0	0.0 0	21.1 23,508	1.0 1,077	0.3 305	0.8 915	0.0 19	0.0 9	100.0 111,653
28 7/05-7/11	332 Percent Numbers	0.0 0	0.0 0	2.4 1,623	12.5 8,454	0.0 0	52.7 35,524	12.3 8,316	0.0 0	0.0 0	19.4 13,064	0.4 292	0.0 26	0.1 96	0.0 17	0.0 0	100.0 67,411
29 7/12-7/18	365 Percent Numbers	0.0 0	0.0 0	2.8 5,003	13.8 24,628	0.1 164	44.6 79,462	16.6 29,603	0.0 0	0.0 0	18.8 33,555	1.5 2,645	0.1 164	1.3 2,305	0.2 334	0.1 164	100.0 178,029
30 7/19-7/25	341 Percent Numbers	0.0 0	0.0 0	1.3 1,089	10.9 9,187	0.2 165	27.6 23,235	31.0 26,049	0.0 0	0.0 0	21.9 18,397	3.2 2,679	0.2 165	3.5 2,924	0.1 86	0.2 165	100.0 84,139
31 7/26-8/01	325 Percent Numbers	0.0 0	0.0 0	1.5 803	8.1 4,349	0.0 6	24.1 12,944	33.2 17,831	0.0 0	0.0 0	22.9 12,269	5.4 2,923	0.0 6	4.4 2,373	0.3 156	0.0 6	100.0 53,666
32 8/02-8/08	347 Percent Numbers	0.0 0	0.0 0	1.3 606	2.0 945	0.0 0	12.9 5,987	51.0 23,690	0.0 0	0.0 0	16.6 7,709	10.9 5,077	0.1 61	4.9 2,291	0.2 73	0.0 0	100.0 46,438
33 8/09-8/15	350 Percent Numbers	0.9 530	0.0 0	0.7 452	7.2 4,461	0.2 151	7.6 4,751	63.5 39,450	0.0 0	0.0 0	7.6 4,753	10.3 6,377	0.2 113	1.8 1,094	0.0 0	0.0 0	100.0 62,132
34 8/16-8/22	298 Percent Numbers	2.2 1,202	0.0 0	0.1 34	15.9 8,640	0.6 344	1.6 857	68.6 37,190	0.0 0	0.0 0	3.4 1,854	7.0 3,803	0.0 9	0.5 249	0.0 0	0.0 0	100.0 54,182
35-38 8/23-9/19	0 Percent Numbers	2.3 3,512	0.0 0	0.0 0	16.8 25,088	0.7 1,004	1.0 1,505	69.1 103,364	0.0 0	0.0 0	3.0 4,516	6.7 10,035	0.0 0	0.3 502	0.0 0	0.0 0	100.0 149,527
Total	4,064 Percent Numbers	0.6 5,772	0.0 256	1.4 14,779	14.8 151,706	0.3 2,583	25.9 266,442	34.9 359,027	0.0 103	0.0 403	16.3 167,221	4.0 41,329	0.1 898	1.5 15,737	0.1 972	0.1 710	100.0 1,027,937

Table 51. Estimated age composition of Uyak Bay (254-10, 20, 30, 40) commercial sockeye salmon catch by week, 2003.

Week	Sample Size	Age															Total	
		0.2	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	4.2	3.4	4.3		
23 5/31-6/06	359	Percent	0.0	0.8	3.9	0.0	4.2	73.0	0.0	0.0	11.1	2.8	0.0	4.2	0.0	0.0	0.0	100.0
		Numbers	0	129	602	0	645	11,262	0	0	1,719	430	0	645	0	0	0	15,431
24 6/07-6/13	347	Percent	0.0	0.9	6.2	0.2	6.2	62.0	0.0	0.0	18.4	2.4	0.0	3.6	0.0	0.0	0.1	100.0
		Numbers	0	1,070	6,986	189	7,012	70,115	0	0	20,837	2,751	0	4,108	0	0	83	113,151
25 6/14-6/20	360	Percent	0.1	0.6	11.0	0.0	10.3	56.8	0.0	0.1	15.5	2.5	0.0	2.8	0.0	0.0	0.2	100.0
		Numbers	51	373	7,333	0	6,884	37,850	0	51	10,354	1,679	0	1,898	0	0	135	66,610
26 6/21-6/27	349	Percent	0.2	0.5	17.0	0.0	14.2	49.4	0.0	0.2	13.4	2.5	0.0	2.5	0.0	0.0	0.0	100.0
		Numbers	162	369	11,658	0	9,776	33,901	0	151	9,200	1,725	0	1,708	0	0	33	68,684
27 6/28-7/04	359	Percent	0.3	0.2	11.8	0.0	13.4	49.1	0.0	0.1	20.1	2.0	0.0	2.9	0.0	0.0	0.0	100.0
		Numbers	260	184	10,949	0	12,389	45,462	0	92	18,633	1,837	5	2,717	0	0	0	92,528
28 7/05-7/11	365	Percent	0.2	1.2	18.3	0.0	30.1	28.4	0.0	0.2	16.4	3.6	0.2	1.4	0.0	0.0	0.0	100.0
		Numbers	82	542	8,128	0	13,361	12,633	0	82	7,289	1,621	82	629	0	0	0	44,451
29 7/12-7/18	344	Percent	0.1	2.0	12.1	0.1	23.1	36.0	0.0	0.1	16.8	5.8	0.0	3.8	0.0	0.0	0.1	100.0
		Numbers	44	1,283	7,812	44	14,871	23,173	0	89	10,790	3,748	0	2,449	0	0	44	64,346
30 7/19-7/25	345	Percent	0.2	0.1	17.8	0.2	10.3	49.9	0.0	0.6	12.6	5.8	0.0	2.1	0.1	0.1	0.2	100.0
		Numbers	192	71	14,741	192	8,526	41,389	0	517	10,408	4,836	0	1,744	44	44	192	82,896
31 7/26-8/01	352	Percent	0.0	0.2	9.3	0.0	13.6	52.4	0.0	0.7	11.7	9.0	0.0	2.4	0.2	0.2	0.0	100.0
		Numbers	34	184	7,075	34	10,413	40,058	0	565	8,964	6,852	0	1,837	184	166	34	76,400
32 8/02-8/08	347	Percent	0.0	0.2	3.8	0.1	3.3	65.4	0.1	0.1	11.5	11.8	0.0	3.4	0.2	0.0	0.0	100.0
		Numbers	0	109	1,888	34	1,627	32,161	34	68	5,670	5,790	0	1,661	109	11	0	49,162
33 8/09-8/15	329	Percent	0.0	0.1	3.4	0.3	3.1	67.6	0.2	0.2	7.2	16.4	0.0	1.3	0.0	0.0	0.0	100.0
		Numbers	0	50	2,941	228	2,682	57,862	206	206	6,174	14,051	0	1,107	28	0	0	85,536
34 8/16-8/22	363	Percent	0.0	0.2	2.2	0.3	1.4	73.0	0.1	0.1	6.7	15.1	0.0	0.9	0.0	0.0	0.0	100.0
		Numbers	0	130	1,464	187	943	48,179	57	57	4,449	9,938	0	561	0	0	0	65,966
35-38 8/23-9/19	0	Percent	0.0	0.3	1.7	0.3	0.6	75.5	0.0	0.0	6.9	14.0	0.0	0.8	0.0	0.0	0.0	100.0
		Numbers	0	541	3,249	541	1,083	148,350	0	0	13,536	27,613	0	1,624	0	0	0	196,537
Total	4,219	Percent	0.1	0.5	8.3	0.1	8.8	59.0	0.0	0.2	12.5	8.1	0.0	2.2	0.0	0.0	0.1	100.0
		Numbers	827	5,035	84,825	1,450	90,212	602,395	297	1,879	128,024	82,871	87	22,688	366	221	522	1,021,698

Table 52. Estimated age composition of Spiridon Lake (Telrod Cove) Terminal Harvest Area sockeye salmon catch by week, 2003.

Week	Sample Size		Age								Total
			1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.2	
25 6/14-6/20	178	Percent	0.0	52.5	0.0	36.5	8.7	0.0	2.3	0.0	100.0
		Numbers	0	7,164	0	4,990	1,185	0	314	0	13,652
26 6/21-6/27	341	Percent	0.0	50.1	0.0	35.2	11.8	0.0	2.9	0.0	100.0
		Numbers	0	19,781	0	13,898	4,671	0	1,160	0	39,509
27 6/28-7/04	200	Percent	0.0	54.6	0.0	25.9	15.7	0.0	3.7	0.0	100.0
		Numbers	28	31,983	0	15,160	9,206	0	2,172	0	58,548
28 7/05-7/11	210	Percent	0.4	49.9	0.0	19.3	24.8	0.0	5.6	0.0	100.0
		Numbers	197	26,319	0	10,162	13,072	0	2,971	0	52,722
29 7/12-7/18	348	Percent	0.1	40.8	0.0	26.4	27.8	0.1	4.8	0.0	100.0
		Numbers	79	22,459	0	14,523	15,303	33	2,617	0	55,014
30 7/19-7/25	167	Percent	0.6	36.1	0.1	26.7	27.1	0.5	8.9	0.1	100.0
		Numbers	132	8,335	12	6,146	6,257	108	2,058	12	23,061
31 7/26-8/01	171	Percent	1.9	27.3	0.4	29.6	29.4	0.1	10.8	0.4	100.0
		Numbers	248	3,533	54	3,828	3,804	10	1,390	54	12,921
32 8/02-8/08	63	Percent	4.8	17.1	0.1	26.3	39.4	0.0	12.3	0.1	100.0
		Numbers	153	544	2	840	1,256	0	392	2	3,188
33 8/09-8/15	104	Percent	1.0	20.8	0.0	32.9	33.5	0.0	11.7	0.0	100.0
		Numbers	11	229	0	361	369	0	129	0	1,099
Total	1,782	Percent	0.3	46.3	0.0	26.9	21.2	0.1	5.1	0.0	100.0
		Numbers	849	120,346	68	69,908	55,122	151	13,201	68	259,714

Table 53. Length composition of Spiridon Lake (Telrod Cove) Terminal Harvest Area sockeye salmon catch samples by age and sex, 2003.

	Age									
	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.2	Total	
<b>Females</b>										
Mean Length (mm)	0	514	562	512	0	528	562	520	533	
SE	-	1	2	-	-	2	4	-	1	
Range	0-0	450-609	470-684	512-512	0-0	434-624	496-607	520-520	434-684	
Sample Size	0	327	189	1	0	195	49	1	762	
<b>Males</b>										
Mean Length (mm)	399	533	585	0	416	544	585	0	554	
SE	26	2	2	-	-	2	5	-	1	
Range	331-492	419-635	469-660	0-0	416-416	443-624	487-641	0-0	331-660	
Sample Size	5	426	334	0	1	193	51	0	1,010	
<b>All Fish</b>										
Mean Length (mm)	399	525	577	512	416	536	574	520	545	
SE	26	1	1	-	-	2	3	-	1	
Range	331-492	419-635	469-684	512-512	416-416	434-624	487-641	520-520	331-684	
Sample Size	5	753	524	1	1	388	100	1	1,773	

Table 54. Estimated sex composition of Spiridon Lake (Telrod Cove) Terminal Harvest Area sockeye salmon catch by week, 2003.

Week	Dates	Sample Size			Escapement					
		Females	Males	Total	Percent		Number			
					Females	Males	Females	Males	Total	
25	6/14-6/20	69	130	199	34.6	65.4	4,719	8,933	13,652	
26	6/21-6/27	133	267	400	34.0	66.0	13,442	26,067	39,509	
27	6/28-7/04	89	150	239	37.8	62.2	22,130	36,418	58,548	
28	7/05-7/11	113	127	240	45.9	54.1	24,210	28,512	52,722	
29	7/12-7/18	186	214	400	47.0	53.0	25,832	29,182	55,014	
30	7/19-7/25	100	100	200	49.9	50.1	11,497	11,564	23,061	
31	7/26-8/01	128	112	240	53.4	46.6	6,901	6,020	12,921	
32	8/02-8/08	44	34	78	55.7	44.3	1,777	1,411	3,188	
33	8/09-8/15	65	55	120	54.5	45.5	599	500	1,099	
<b>Total</b>		<b>927</b>	<b>1189</b>	<b>2,116</b>	<b>42.8</b>	<b>57.2</b>	<b>111,109</b>	<b>148,605</b>	<b>259,714</b>	

Table 55. Estimated age composition of Inner and Outer Karluk Sections (255-10, 20) commercial sockeye salmon catch, week 23 to 27, 2003.

Week	Sample Size	Age												Total
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	2.3	3.2	3.3		
23 5/31-6/06	402	Percent	0.1	1.5	0.0	3.9	4.3	3.9	67.3	0.9	13.9	3.5	0.6	100.0
		Numbers	21	228	5	601	662	600	10,322	137	2,129	538	93	15,335
24 6/07-6/13	351	Percent	1.0	1.2	0.4	12.0	6.3	3.8	53.4	1.7	15.2	3.7	1.4	100.0
		Numbers	360	430	126	4,239	2,220	1,349	18,797	582	5,337	1,301	483	35,224
25 6/14-6/20	0	Percent	1.0	0.5	0.7	12.8	5.4	5.1	53.4	0.9	14.9	3.7	1.5	100.0
		Numbers	844	399	605	10,770	4,542	4,284	44,910	734	12,539	3,139	1,274	84,040
26 6/21-6/27	320	Percent	0.7	0.0	0.7	13.8	5.6	6.5	52.4	0.2	14.6	3.5	1.9	100.0
		Numbers	247	0	247	4,735	1,915	2,244	17,948	82	5,002	1,214	638	34,274
27 6/28-7/04	35	Percent	0.1	0.0	0.1	16.8	8.2	8.3	46.5	0.0	14.3	2.9	2.7	100.0
		Numbers	23	0	23	4,674	2,295	2,326	12,957	8	3,993	818	765	27,882
Total	1,108	Percent	0.8	0.5	0.5	12.7	5.9	5.5	53.3	0.8	14.7	3.6	1.7	100.0
		Numbers	1,495	1,057	1,006	25,020	11,634	10,804	104,934	1,542	28,999	7,010	3,254	196,755

Note: Age composition estimates represent harvest from week 23-27. The total Inner and Outer Karluk sockeye salmon harvest was 582,067.

Table 56. Estimated age composition of Cape Alitak and Humpy-Deadman Sections (257-10, 20, 50, 60, 70) commercial sockeye salmon catch by week, 2003.

Week	Sample Size	Age														Total	
		0.1	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		
23 5/31-6/06	0 Percent Numbers	0.4	4.6	2.0	1.5	18.8	9.5	4.4	42.0	1.8	0.0	13.1	1.1	0.0	0.7	100.0	
		15	160	69	53	649	328	153	1,451	61	0	450	38	0	23	3,451	
24 6/07-6/13	452 Percent Numbers	0.4	4.6	2.0	1.5	18.8	9.5	4.4	42.0	1.8	0.0	13.1	1.1	0.0	0.7	100.0	
		10	103	44	34	416	210	98	929	39	0	288	24	0	15	2,210	
29 7/12-7/18	535 Percent Numbers	0.0	0.2	0.1	0.6	15.1	0.9	58.0	10.7	0.0	0.9	12.7	0.6	0.2	0.2	100.0	
		2	43	15	162	4,235	250	16,312	3,002	12	257	3,558	167	51	55	28,120	
30 7/19-7/25	535 Percent Numbers	0.0	5.5	1.5	0.2	19.0	12.2	10.4	40.0	0.9	0.5	7.0	2.7	0.0	0.2	100.0	
		0	696	191	20	2,427	1,553	1,326	5,102	112	61	897	345	1	31	12,762	
31 7/26-8/01	535 Percent Numbers	0.0	5.5	2.0	0.0	21.3	6.8	7.7	45.5	0.9	0.2	6.3	3.4	0.0	0.3	100.0	
		0	995	372	4	3,874	1,236	1,402	8,285	155	30	1,153	626	0	61	18,191	
32 8/02-8/08	0 Percent Numbers	0.0	5.7	1.1	0.1	18.6	5.3	3.5	57.5	0.5	0.1	3.6	3.8	0.0	0.1	100.0	
		0	1,213	235	27	3,961	1,136	750	12,241	102	15	774	807	0	30	21,291	
33 8/09-8/15	494 Percent Numbers	0.0	5.8	0.5	0.2	16.9	4.4	0.9	65.0	0.2	0.0	1.9	4.0	0.0	0.0	100.0	
		0	826	73	27	2,392	625	127	9,186	35	2	274	566	0	3	14,137	
34-37 8/16-9/12	0 Percent Numbers	0.0	5.9	0.4	0.2	16.6	4.3	0.4	66.4	0.2	0.0	1.6	4.0	0.0	0.0	100.0	
		0	729	50	25	2,060	528	50	8,242	25	0	201	503	0	0	12,413	
Total	2,551	Percent Numbers	0.0 27	4.2 4,765	0.9 1,048	0.3 352	17.8 20,013	5.2 5,867	18.0 20,218	43.0 48,437	0.5 542	0.3 364	6.7 7,596	2.7 3,076	0.0 52	0.2 218	100.0 112,575

Table 57. Estimated age composition of Olga Bay, Alitak Bay, and Moser Bay Sections (257-40, 41, 43) commercial sockeye salmon catch by week, 2003.

Week	Sample Size	Age													Total	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		
23 5/31-6/06	511	Percent	1.6	0.0	1.4	17.8	0.0	2.9	59.7	0.0	0.0	14.9	1.4	0.2	0.2	100.0
		Numbers	187	0	164	2,128	0	351	7,134	0	0	1,778	164	23	23	11,952
24 6/07-6/13	553	Percent	1.2	0.2	1.1	20.4	0.0	2.5	53.3	0.0	0.2	18.4	2.1	0.0	0.8	100.0
		Numbers	106	14	104	1,874	0	226	4,905	0	14	1,694	189	3	74	9,203
25-28 6/14-7/11	0	Percent	1.0	0.2	0.9	18.6	0.1	8.1	48.4	0.0	0.2	19.9	1.9	0.0	0.7	100.0
		Numbers	5	1	4	91	1	105	254	1	2	128	8	1	3	603
29 7/12-7/18	530	Percent	1.5	0.2	0.2	12.4	0.4	27.2	35.0	0.2	0.4	21.2	1.1	0.2	0.0	100.0
		Numbers	361	36	53	2,941	89	6,456	8,299	44	98	5,038	265	36	9	23,724
30 7/19-7/25	546	Percent	5.6	0.0	0.4	24.6	0.4	6.5	47.5	0.1	0.5	11.0	3.2	0.0	0.2	100.0
		Numbers	637	1	42	2,816	42	744	5,435	17	54	1,258	366	1	25	11,436
31 7/26-8/01	531	Percent	7.0	0.0	0.4	25.7	0.3	3.0	54.2	0.0	0.2	5.6	3.2	0.0	0.3	100.0
		Numbers	850	0	46	3,109	42	366	6,570	1	24	680	390	0	41	12,118
32 8/02-8/08	538	Percent	3.7	0.0	0.3	23.9	0.0	0.6	65.0	0.0	0.0	2.8	3.7	0.0	0.0	100.0
		Numbers	1,042	0	80	6,641	0	160	18,075	0	0	773	1,039	0	0	27,810
33 8/09-8/15	505	Percent	2.0	0.0	0.1	22.4	0.1	0.4	68.2	0.0	0.0	2.3	4.5	0.0	0.0	100.0
		Numbers	709	0	44	7,932	27	131	24,095	0	0	816	1,582	0	0	35,335
34 8/16-8/22	499	Percent	1.0	0.0	0.0	21.7	0.2	0.1	70.6	0.0	0.0	1.6	4.8	0.0	0.0	100.0
		Numbers	492	0	22	11,072	80	66	36,099	0	0	812	2,465	0	0	51,109
35 8/23-8/29	362	Percent	0.3	0.0	0.0	20.6	0.5	0.2	69.8	0.0	0.0	3.4	5.2	0.0	0.0	100.0
		Numbers	111	0	0	7,659	184	85	25,971	0	0	1,272	1,939	0	0	37,220
36 8/30-9/05	0	Percent	0.3	0.0	0.0	20.4	0.6	0.3	69.3	0.0	0.0	3.9	5.2	0.0	0.0	100.0
		Numbers	32	0	0	2,361	64	32	8,008	0	0	447	606	0	0	11,549
Total	4,575	Percent	2.0	0.0	0.2	21.0	0.2	3.8	62.4	0.0	0.1	6.3	3.9	0.0	0.1	100.0
		Numbers	4,531	52	558	48,624	528	8,723	144,844	63	192	14,694	9,012	63	174	232,059

Table 58. Age composition of Alitak Bay (Chip Cove) test fishery sockeye salmon catch samples by week, 2003.

Week	Dates		Age										Total	
			0.2	0.3	1.2	1.3	2.1	2.2	2.3	2.4	3.2	3.3		
22	5/24-5/30	Numbers	0	1	1	0	0	3	2	0	1	0	8	
		Percent	0.0	12.5	12.5	0.0	0.0	37.5	25.0	0.0	12.5	0.0	8	
23	5/31-6/06	Numbers	0	0	26	4	0	58	14	0	1	2	105	
		Percent	0.0	0.0	24.8	3.8	0.0	55.2	13.3	0.0	1.0	1.9	105	
24	6/07-6/13	Numbers	1	2	14	0	0	68	32	0	0	2	119	
		Percent	0.8	1.7	11.8	0.0	0.0	57.1	26.9	0.0	0.0	1.7	119	
25	6/14-6/20	Numbers	0	3	17	10	0	54	36	1	1	0	122	
		Percent	0.0	2.5	13.9	8.2	0.0	44.3	29.5	0.8	0.8	0.0	122	
26	6/21-6/27	Numbers	1	0	9	2	0	87	29	0	1	0	129	
		Percent	0.8	0.0	7.0	1.6	0.0	67.4	22.5	0.0	0.8	0.0	129	
27	6/28-7/04	Numbers	0	0	9	7	1	76	41	0	2	2	138	
		Percent	0.0	0.0	6.5	5.1	0.7	55.1	29.7	0.0	1.4	1.4	138	
28	7/05-7/11	Numbers	1	0	17	16	2	66	34	0	1	1	138	
		Percent	0.7	0.0	12.3	11.6	1.4	47.8	24.6	0.0	0.7	0.7	138	
29	7/12-7/18	Numbers	0	0	8	4	0	21	8	0	0	0	41	
		Percent	0.0	0.0	19.5	9.8	0.0	51.2	19.5	0.0	0.0	0.0	41	
30	7/19-7/25	Numbers	2	0	12	0	0	32	10	0	1	1	58	
		Percent	3.4	0.0	20.7	0.0	0.0	55.2	17.2	0.0	1.7	1.7	58	
31	7/26-8/01	Numbers	1	0	9	0	0	18	1	0	0	0	29	
		Percent	3.4	0.0	31.0	0.0	0.0	62.1	3.4	0.0	0.0	0.0	29	
Total		Numbers	6	6	122	43	3	483	207	1	8	8	887	
		Percent	0.7	0.7	13.8	4.8	0.3	54.5	23.3	0.1	0.9	0.9	887	

Table 59. Spiridon Lake sockeye salmon estimated catch by area and estimated total run by age class, 2003.

Week	Sample Size	Age								Total		
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.2			
<i>Estimated Spiridon Catch by Area</i>												
Spiridon Lake Terminal Harvest Area (Telrod Cove: 254-50)												
1,782	Percent	0.3	46.3	0.0	26.9	21.2	0.1	5.1	0.0	100.0		
	Numbers	849	120,346	68	69,908	55,122	151	13,201	68	259,714		
SW Afognak Section and NW Kodiak District												
	Percent <sup>a</sup>	0.3	46.3	0.0	26.9	21.2	0.1	5.1	0.0	100.0		
	Numbers <sup>b</sup>	1,239	175,615	100	102,013	80,436	220	19,264	100	378,986		
Total Run	Percent	0.3	46.3	0.0	26.9	21.2	0.1	5.1	0.0	100.0		
1,782	Numbers	2,089	295,961	168	171,920	135,559	371	32,465	168	638,700		

<sup>a</sup> Age composition based on samples collected at SLTHA.

<sup>b</sup> Average proportion of Spiridon harvest occurring in the SLTHA (41%) was used to calculate the number of Spiridon sockeye salmon harvested in the SW Afognak Section and NW Kodiak District combined.

Table 60. Karluk Lake early-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.

Sample Size		Age												Total		
		1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4			
<i>Estimated Karluk Early-Run Catch by Area</i>																
Uyak Bay (254-10 - 254-40) <sup>a</sup>																
2,483	Percent	0.0	1.9	0.7	0.0	0.0	67.2	16.7	0.0	0.0	6.4	7.1	0.0			
	Numbers	0	3,515	1,236	0	0	121,390	30,137	16	0	11,538	12,748	0	180,580		
Uganik-Viekoda (253-11 - 253-35) <sup>a</sup>																
2,403	Percent	0.0	1.9	0.7	0.0	0.7	66.7	16.6	0.0	0.1	8.8	4.5	0.0			
	Numbers	21	1,818	640	0	659	62,799	15,591	8	103	8,283	4,280	0	94,202		
Inner and Outer Karluk Sections																
1,108	Percent	0.3	1.7	0.6	0.0	10.1	59.2	14.7	0.0	1.6	7.8	4.0	0.0			
	Numbers	321	1,679	590	0	9,885	57,971	14,392	0	1,542	7,677	3,921	0	97,979		
Total Catch	5,994	Percent	0.1	1.9	0.7	0.0	2.8	65.0	16.1	0.0	0.4	7.4	5.6	0.0		
	Numbers	342	7,012	2,466	0	10,543	242,161	60,120	24	1,645	27,498	20,950	0	372,761		
<i>Karluk Early-Run Escapement</i>																
1,388	Percent	0.1	1.9	0.7	0.0	4.1	64.0	15.9	0.0	0.6	8.0	4.7	0.1			
	Numbers	597	8,370	2,944	0	18,404	289,045	71,760	37	2,872	36,250	21,086	492	451,856		
Total Run	7,382	Percent	0.1	1.9	0.7	0.0	3.5	64.4	16.0	0.0	0.5	7.7	5.1	0.1		
	Numbers	939	15,382	5,410	0	28,948	531,206	131,879	61	4,517	63,748	42,035	492	824,617		

<sup>a</sup> Uyak and Uganik-Viekoda catches were apportioned to Karluk using an age 3. marker.

Table 61. Karluk Lake early-run sockeye salmon brood table showing estimated returns from parent escapements by age class.

Brood Year	Escap.	Age															Total Return/ Return Spawner					
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	4.1	2.4	3.3	4.2	3.4	4.3	4.4		
1976	204,037																		0			
1977	185,312																		0	0	0	
1978	248,741																		0	0	0	
1979	212,872																		0	0	0	
1980	132,396							0	11,635	193,760	4,085	0	103,899	60,395	0	0	37,689	0	0	0	0	
1981	97,937		0	8,558	18,604	0	3,735	278,831	1,672	0	117,158	38,129	0	272	22,433	0	0	0	0	0		
1982	122,705	0	1,244	841	4,650	5,466	0	21,058	197,293	4,169	0	93,560	37,079	0	0	20,728	0	0	0	320		
1983	215,620	0	143	564	8,159	7,032	0	14,244	149,947	1,728	0	183,829	33,945	0	337	14,082	0	0	0	414,009	1.9	
1984	288,422	0	0	0	4,090	8,393	0	5,830	97,537	738	0	94,258	30,589	0	908	19,634	0	0	0	261,977	0.9	
1985	316,688	0	0	24	4,258	2,842	0	3,969	72,857	3,010	0	88,599	57,934	0	1,955	40,331	0	38	30	0	275,847	0.9
1986	358,756	24	0	337	6,152	2,201	346	6,443	87,691	4,031	94	129,381	131,218	0	479	61,223	1,508	235	113	0	431,475	1.2
1987	354,094	427	0	1,456	958	2,884	0	8,503	114,504	19,876	416	44,051	337,905	0	285	60,244	2,309	690	1,969	0	596,477	1.7
1988	296,510	0	0	0	8,383	6,297	0	9,708	84,322	13,770	0	37,096	202,729	0	320	70,357	231	39	2,906	0	436,159	1.5
1989	349,753	0	1,621	0	8,492	7,624	0	13,979	104,564	5,517	0	167,751	101,296	0	1	69,709	5,362	0	1,713	0	487,630	1.4
1990	196,197	0	181	0	18,149	2,780	0	50,649	79,156	6,586	652	146,751	97,063	0	269	70,863	760	0	0	0	473,858	2.4
1991	243,069	0	1,224	1,062	26,661	12,015	0	83,430	326,422	7,087	0	127,809	81,364	809	107	12,113	2,476	0	247	0	682,826	2.8
1992	217,152	0	2,669	4	9,627	9,642	0	13,159	52,730	14,935	0	42,891	58,375	0	769	36,603	0	79	0	0	241,483	1.1
1993	261,169	2	1,534	350	3,309	18,252	0	7,718	226,377	2,275	0	128,158	35,029	0	1,752	42,563	437	288	0	0	468,044	1.8
1994	260,771	0	1,017	0	8,956	7,266	0	41,179	294,780	1,857	427	182,133	54,148	0	587	33,887	1,781	1,042	0	0	629,059	2.4
1995	238,079	0	218	0	23,268	13,106	0	33,004	231,809	3,463	0	245,934	83,559	0	1,405	52,470	835	492	0			
1996	250,357	0	0	0	2,063	5,959	0	2,217	253,847	2,326	0	215,129	84,029	0	61	42,035	0					
1997	252,859	0	0	1,838	3,930	11,696	0	6,691	233,964	3,274	0	131,879	63,748	0								
1998	252,298	0	574	0	4,258	19,885	0	5,410	531,206	4,517												
1999	392,419	0	898	0	15,382	28,948																
2000	291,351	0	939																			
2001	338,799																					
2002	456,842																					
2003	451,856																					

10-year average (1985-1994): 472,286 1.7

Table 62. Karluk Lake late-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.

Sample Size		Age													Total		
		0.2	0.4	1.1	1.2	1.3	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.3			
<i>Estimated Karluk Late-Run Catch by Area</i>																	
Uyak Bay (254-10 - 254-40) <sup>a</sup>																	
1,736	Percent	0.1	0.0	0.0	1.8	0.2	0.3	63.0	14.0	0.1	18.0	2.5	0.1	0.1	396,978		
	Numbers	201	0	0	6,990	911	1,256	249,953	55,610	297	71,333	9,940	221	266			
Uganik-Viekoda (253-11 - 253-35) <sup>a</sup>																	
1,661	Percent	0.0	0.0	0.0	1.7	0.2	0.0	60.5	17.7	0.0	14.7	5.1	0.0	0.1			
	Numbers	110	0	0	3,817	498	0	136,493	39,844	0	33,046	11,456	0	209	225,473		
Inner and Outer Karluk Sections																	
0	Percent	0.0	0.2	0.0	1.3	0.0	2.7	52.4	20.1	0.7	13.7	8.8	0.0	0.1			
	Numbers	71	558	0	4,333	6	9,210	179,867	69,016	2,526	46,891	30,195	0	362	343,035		
Total Catch	3,397	Percent	0.0	0.1	0.0	1.6	0.1	1.1	58.7	17.0	0.3	15.7	5.3	0.0	0.1		
		Numbers	382	558	0	15,139	1,415	10,466	566,313	164,470	2,823	151,270	51,591	221	837	965,486	
<i>Karluk Late-Run Escapement</i>																	
1,870	Percent	0.0	0.1	0.0	1.6	0.2	4.9	56.9	16.6	0.9	13.5	5.1	0.0	0.1			
	Numbers	287	842	51	9,978	1,301	30,935	356,828	104,161	5,584	84,437	31,840	62	547	626,854		
Total Run	5,267	Percent	0.0	0.1	0.0	1.6	0.2	2.6	58.0	16.9	0.5	14.8	5.2	0.0	0.1		
	Numbers	669	1,399	51	25,117	2,716	41,401	923,141	268,631	8,407	235,707	83,431	284	1,384	1,592,340		

<sup>a</sup> Uyak and Uganik catches were apportioned to Karluk using an age 3. marker.

Table 63. Karluk Lake late-run sockeye salmon brood table showing estimated returns from parent escapements by age class.

Brood Year	Escap.	Age														Total Return/ Return Spawner			
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	4.2	3.4	4.3
1976	319,459																		
1977	366,936																0	0	
1978	112,194															0	6,728	0	0
1979	248,908															0	54,171	167,426	0
1980	14,227															0	156,074	177,587	1,190
1981	124,769															0	25,537	0	0
1982	41,702	0	0	0	0	0	1,261	0	5,239	290,631	606	0	110,997	34,711	0	14,077	0	0	
1983	220,795	0	0	0	4,079	4,160	12,830	0	480	241,803	1,268	31	213,452	42,156	2,070	47,370	0	0	
1984	131,846	0	885	0	0	445	6,246	0	30,516	424,123	0	937	303,542	271,018	471	71,764	651	0	
1985	679,260	169	0	0	1,084	30,165	212	189	60,235	784,914	494	595	493,743	421,972	462	43,998	0	42	
1986	528,415	0	893	0	15,519	39,109	978	105	57,974	835,214	1,162	0	114,862	655,219	563	60,240	325	147	
1987	412,157	106	5,976	201	17,067	24,703	1,737	0	550	226,552	2,373	0	23,389	320,723	79	54,451	1,600	0	
1988	282,306	0	2,531	111	2,424	4,649	1,512	0	3,127	189,196	7,249	0	71,078	212,649	0	16,740	0	0	
1989	758,893	0	3,555	799	3,717	5,909	12,607	0	3,302	308,439	6,233	0	151,212	214,110	0	12,030	950	0	
1990	541,891	0	3,591	971	6,292	16,995	3,241	0	10,310	447,371	1,085	18	52,479	80,226	591	62,392	1,095	0	
1991	831,970	0	7,113	340	2,879	16,292	3,023	0	8,568	340,535	4,731	52	191,311	85,334	952	13,107	659	111	
1992	614,262	0	1,567	1,923	0	3,880	6,759	0	12,234	57,188	5,043	0	76,196	138,987	513	28,379	0	0	
1993	396,288	0	0	1,501	2,860	3,550	17,168	0	11,541	412,758	1,362	36	202,913	75,591	0	23,523	0	0	
1994	587,258	0	0	198	1,192	24,718	4,323	0	17,261	616,350	1,008	0	159,094	109,890	551	41,274	821	128	
1995	504,977	0	1,156	0	3,219	48,766	8,685	0	1,839	353,857	5,252	0	390,880	129,216	424	28,253	405	284	
1996	323,969	0	540	633	0	2,970	108	0	469	283,071	2,817	0	149,445	139,820	0	83,431	0		
1997	311,902	0	0	407	0	1,473	21,821	0	291	494,043	18,682	0	268,631	235,707					
1998	384,848	0	0	136	0	586	33,787	1,399	2,716	923,141	8,407								
1999	589,119	0	0	0	0	25,117	41,401												
2000	445,393	155	669	51															
2001	524,739	0																	
2002	408,734																		
2003	626,854																		
																		10-year average (1986-1995): 809,520	
																		1.6	

Table 64. Ayakulik River (Red L.) sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.

Sample Size	Age											Total	
	1.1	0.3	1.2	2.1	1.3	2.2	3.1	2.3	3.2	2.4	3.3		
<i>Estimated Ayakulik Catch by Area</i>													
90% of Inner and Outer Ayakulik Sections <sup>a</sup>													
Percent	1.1	2.4	26.8	4.4	6.4	49.3	0.7	8.2	0.4	0.1	0.1	100.0	
Numbers	1	2	24	4	6	44	1	7	0	0	0	90	
<i>Total Estimated Ayakulik Catch</i>													
Percent	1.1	2.4	26.8	4.4	6.4	49.3	0.7	8.2	0.4	0.1	0.1	100.0	
Numbers	1	2	24	4	6	44	1	7	0	0	0	90	
<i>Ayakulik Escapement</i>													
1,635	Percent	1.1	2.4	26.8	4.4	6.4	49.3	0.7	8.2	0.4	0.1	0.1	
	Numbers	2,260	4,816	52,991	8,750	12,652	97,530	1,469	16,162	727	291	244	
Total Run													
1,635	Percent	1.1	2.4	26.8	4.4	6.4	49.3	0.7	8.2	0.4	0.1	0.1	
	Numbers	2,261	4,818	53,015	8,754	12,657	97,574	1,470	16,169	727	291	244	

<sup>a</sup> Age composition based on Ayakulik River sockeye escapement.

Table 65. Ayakulik River (Red L.) sockeye salmon brood table showing estimated returns from parent escapements by age class.

Brood Year	Escap.	Age													Total Return/	Return/ Spawner		
		0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	3.4		
1963	63,563											0	58,667	6,268	0	0	0	
1964	36,342							0	158	50,206	0	0	5,705	3,375	0	0	0	
1965	76,456			0	158	3,470	0	0	33,522	0	0	13,150	5,534	0	0	0		
1966	66,057	0	315	0	1,173	16,622	0	3,285	57,850	0	0	51,109	7,031	0	0	0		
1967	227,089	0	1,772	0	24,013	3,338	0	16,469	78,834	0	0	23,976	0	0	0	137,384	2.1	
1968	220,850	0	83	0	4,199	2,825	0	34,463	89,549	0	0	123,053	8,493	0	0	0	148,402	0.7
1969	71,160	0	0	0	4,756	3,703	0	3,704	78,972	0	0	13,734	652	0	0	0	105,523	1.5
1970	33,863	0	0	0	1,084	6,325	0	2,052	17,543	0	0	9,152	3,274	0	0	0	39,429	1.2
1971	109,174	0	3,251	0	35,919	18,925	0	26,505	184,053	0	0	16,736	3,364	0	0	0	288,753	2.6
1972	113,733	0	5,080	0	121,160	6,723	0	99,681	260,325	0	0	71,225	0	0	0	0	564,194	5.0
1973	119,993	0	986	1,395	79,993	7,548	0	82,532	110,906	0	0	45,469	1,393	0	0	0	330,221	2.8
1974	181,631	0	3,364	0	46,281	0	0	45,109	129,000	0	0	221,923	3,892	0	0	0	449,570	2.5
1975	94,517	0	0	1,393	10,982	14,989	0	30,950	308,251	0	0	96,141	858	0	0	0	463,563	4.9
1976	219,047	0	5,835	3,855	405,330	8,408	0	164,495	187,009	0	0	61,395	0	0	0	0	836,328	3.8
1977	306,982	0	0	0	5,060	3,431	0	18,656	170,721	0	0	85,541	3,940	0	0	0	287,349	0.9
1978	132,864	0	0	0	1,556	15,799	0	14,937	45,081	0	0	42,151	2,747	0	0	0	122,273	0.9
1979	222,270	0	3,625	441	16,345	18,352	0	40,958	131,539	0	0	41,815	1,438	0	0	0	254,511	1.1
1980	774,328	0	11,780	13,347	402,761	24,781	0	232,583	305,083	0	0	159,440	2,762	0	0	0	1,152,537	1.5
1981	279,200	0	17,149	0	310,784	7,450	0	230,889	328,622	0	0	168,527	28,564	0	0	0	1,091,984	3.9
1982	169,678	0	6,857	7,500	1,626	2,596	0	16,351	123,667	0	0	77,129	4,751	0	0	0	240,476	1.4
1983	171,415	0	548	1,171	20,198	15,116	0	72,231	168,055	0	1,138	102,174	0	0	0	0	380,632	2.2
1984	283,215	0	7,779	3,311	138,185	78,899	0	71,099	197,115	0	0	103,450	3,347	0	0	0	603,185	2.1
1985	388,759	0	61,345	3,781	369,690	18,319	0	589,731	513,314	0	0	229,750	4,276	0	0	0	1,790,205	4.6
1986	318,135	146	4,642	38,326	571,371	6,489	0	506,463	365,644	0	0	231,471	5,967	0	0	0	1,730,518	5.4
1987	261,913	0	12,991	15,380	173,341	13,602	0	103,512	317,142	0	0	341,728	32,807	0	5,063	0	1,015,566	3.9
1988	291,774	0	2,822	3,351	81,584	2,832	0	62,159	126,124	0	0	27,783	10,655	0	8,225	0	325,535	1.1
1989	768,101	0	2,571	5,565	26,297	29,189	0	18,318	310,379	0	0	254,557	59,553	0	46,238	0	752,667	1.0
1990	371,282	0	1,028	8,047	3,618	14,638	0	59,035	295,167	0	0	202,600	16,202	0	102	38	600,475	1.6
1991	384,859	640	22,371	17,118	145,925	36,123	0	393,249	482,187	0	19	158,923	5,779	64	2,796	0	1,265,194	3.3
1992	344,184	4,591	2,578	9,900	65,889	24,694	205	10,135	200,817	2,188	2,685	230,460	19,788	1,983	6,010	112	582,035	1.7
1993	286,170	0	3,093	3,678	2,504	16,283	400	176,539	409,718	516	8,075	138,504	7,591	344	5,426	0	772,671	2.7
1994	380,181	465	42,711	7,275	555,246	35,908	17,036	338,728	344,937	546	79	102,628	7,224	401	1,737	0	1,454,921	3.8
1995	317,832	0	4,711	4,707	101,292	18,181	516	53,759	227,822	3,186	0	240,294	22,068	1,125	6,135	0	683,795	2.2
1996	337,155	269	1,770	17,050	16,902	8,589	332	93,851	198,161	364	0	143,934	802	291	244			
1997	308,214	5	1,250	4,810	14,447	5,395	597	11,767	34,814	330	0	16,169	727					
1998	427,208	0	4,554	597	29,683	2,929	0	12,657	97,574	1,470								
1999	295,717	0	2,953	4,818	53,015	8,754												
2000	208,651	0	2,261															
2001	218,892																	
2002	229,292																	
2003	197,892																	

10-year average (1986-1995): 918,338 2.7

Table 66. Frazer Lake (Dog Salmon Creek) sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.

Sample Size		Age											Total
		1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	
<i>Estimated Catch by Area</i>													
Cape Alitak and Humpy-Deadman Sections													
	Percent	0.5	5.2	10.8	27.2	35.3	6.4	0.5	6.1	7.4	0.4	0.3	100.0
1,958	Numbers	113	1,160	2,401	6,059	7,864	1,432	101	1,358	1,645	91	71	22,295
Moser, Olga, and Alitak Bay Sections													
	Percent	0.2	6.6	0.5	28.9	34.6	0.2	0.6	25.5	2.1	0.2	0.4	100.0
2,981	Numbers	55	1,918	142	8,349	10,008	67	179	7,369	606	65	130	28,888
Total Estimated Frazer Catch													
	Percent	0.3	6.0	5.0	28.2	34.9	2.9	0.5	17.1	4.4	0.3	0.4	100.0
	Numbers	168	3,078	2,543	14,408	17,872	1,499	279	8,727	2,251	156	201	51,183
<i>Dog Salmon Escapement</i>													
	Percent	13.4	0.2	51.2	0.1	26.6	5.7	0.1	2.6	0.0	0.0	0.0	100.0
1,443	Numbers	35,308	428	134,425	302	69,989	14,955	351	6,938	0	35	0	262,731
Total Run													
	Percent	11.3	1.1	43.6	4.7	28.0	5.2	0.2	5.0	0.7	0.1	0.1	100.0
	Numbers	35,476	3,507	136,968	14,710	87,861	16,454	630	15,665	2,251	191	201	313,914

Table 67. Frazer Lake (Dog Salmon Creek) sockeye salmon brood table showing estimated returns from parent escapements by age class.

Brood Year	Escap.	Age												Total Return	Return/Spawner		
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3			
1966	16,456	0	0	0	11,820	1,732	7,580	16,149	0	0	2,629	0	0	0	39,910	2.4	
1967	21,834	0	1,118	0	38,626	395	38,395	11,553	0	0	5,114	0	0	0	95,202	4.4	
1968	16,738	0	461	0	15,565	899	15,228	14,998	0	0	10,757	0	0	0	57,910	3.5	
1969	14,041	0	138	0	14,654	5,229	9,306	30,137	0	0	6,007	0	0	512	65,984	4.7	
1970	24,039	0	2,241	0	17,672	16,989	1,687	51,299	0	0	9,351	3,074	0	1,691	104,005	4.3	
1971	55,366	0	512	0	1,417	6,345	769	92,226	0	0	20,151	0	0	0	121,419	2.2	
1972	66,419	0	742	0	10,888	11,016	8,032	91,876	0	0	71,167	345	0	0	194,066	2.9	
1973	56,255	0	256	0	2,677	5,637	4,825	31,706	345	0	15,969	0	0	0	61,415	1.1	
1974	82,609	0	10,850	0	53,591	9,305	28,713	75,084	154	461	30,407	461	0	0	209,026	2.5	
1975	64,199	0	1,034	0	22,571	8,906	20,732	173,687	0	0	72,701	0	0	0	299,631	4.7	
1976	119,321	0	2,150	0	223,444	8,753	73,677	257,625	0	0	143,383	0	0	393	709,424	5.9	
1977	139,548	0	2,764	0	73,189	2,928	92,211	107,917	0	0	146,064	393	0	0	425,466	3.0	
1978	141,981	0	7,807	0	162,130	507	24,148	22,970	0	0	16,844	0	0	638	235,043	1.7	
1979	126,742	0	507	0	1,374	982	2,965	24,323	0	0	26,791	0	0	2,165	59,106	0.5	
1980	405,535	0	0	0	6,064	16,305	7,654	589,393	0	0	141,065	684	46	52	761,264	1.9	
1981	377,716	0	876	0	12,120	0	2,455	7,748	0	172	5,239	0	0	862	29,471	0.1	
1982	430,423	0	1,276	0	23,647	431	28,624	3,735	24	754	10,870	10,812	0	0	80,172	0.2	
1983	158,340	0	10	26	8,935	9,729	13,438	380,531	1,604	0	586,833	0	0	0	36,986	1,038,092	6.6
1984	53,524	0	1,001	0	5,771	33,628	7,437	386,832	0	0	67,142	2,046	0	0	503,856	9.4	
1985	485,835	0	192	0	16,502	4,399	49,290	53,978	151	0	22,578	9,032	1,595	2,694	160,412	0.3	
1986	126,529	1,393	67,475	0	727,658	40,794	230,893	972,290	0	0	168,815	9,129	0	8,584	2,227,031	17.6	
1987	40,544	0	1,787	1,851	3,019	26,596	3,902	187,581	0	0	159,822	104	156	882	385,701	9.5	
1988	246,704	0	1,886	0	21,073	7,793	30,096	210,586	133	0	64,565	20,510	16	7,994	364,652	1.5	
1989	360,373	0	16,191	208	327,929	12,847	153,078	373,277	5,752	0	300,182	145,325	0	40,754	1,375,543	3.8	
1990	226,707	0	1,096	0	18,217	12,986	33,393	400,750	1,678	0	210,744	15,341	455	9,340	704,000	3.1	
1991	190,358	0	621	0	2,031	57,463	1,728	330,834	302	0	105,361	630	0	0	498,970	2.6	
1992	185,825	0	3,545	0	20,513	78,168	27,471	211,959	4,666	0	185,148	18,141	0	2,209	551,819	3.0	
1993	178,391	0	2,529	45	12,677	41,759	56,178	291,218	4,831	0	64,155	17,867	256	5,830	497,344	2.8	
1994	206,071	0	2,056	0	23,034	17,688	39,741	112,849	1,048	0	77,546	15,427	187	15,733	305,309	1.5	
1995	196,323	0	10,106	0	59,574	39,574	77,223	152,287	1,251	0	251,356	11,284	815	5,387	608,857	3.1	
1996	198,695	0	20,062	0	41,983	22,276	81,667	32,786	26	1,641	50,325	101	191	201	251,259	1.3	
1997	205,264	0	626	0	8,327	1,639	9,831	14,560	231	630	15,665	2,251					
1998	233,755	0	367	0	1,374	24,808	14,710	87,861	16,454								
1999	216,565	0	1,152	0	3,507	136,968											
2000	158,044	0	35,476														
2001	154,349																
2002	85,317																
2003	201,679																

10-Year Average (1987-1996): 554,346 3.2

Table 68. South Olga Lakes (Upper Station) early-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.

Sample Size	Age									Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	2.3	3.2		
<i>Estimated Catch by Area</i>											
Cape Alitak and Humpy-Deadman Sections											
Percent		5.6	0.0	1.9	22.5	0.0	2.9	50.3	15.6	1.3	100.0
1,958	Numbers	210	0	70	852	0	111	1,904	591	50	3,788
Moser, Olga, and Alitak Bay Sections											
Percent		1.5	0.0	1.3	20.2	0.0	0.8	60.5	14.2	1.6	100.0
2,981	Numbers	283	0	258	3,888	0	149	11,641	2,731	304	19,254
Outer Upper Station Section <sup>a</sup>											
Percent		2.5	0.0	0.0	59.1	0.0	0.8	37.5	0.0	0.0	100.0
Numbers		30	0	0	693	0	10	440	0	0	1,172
Total Estimated Upper Station Early-Run Catch											
Percent		2.2	0.0	1.4	22.4	0.0	1.1	57.8	13.7	1.5	100.0
4,939	Numbers	523	0	328	5,433	0	270	13,985	3,322	354	24,214
<i>Upper Station Early-Run Escapement</i>											
Percent		0.3	14.3	0.0	29.5	8.0	0.2	42.0	5.1	0.6	100.0
1,085	Numbers	256	10,912	0	22,461	6,080	148	31,966	3,911	441	76,175
Total Run											
Percent		0.8	10.9	0.3	27.8	6.1	0.4	45.8	7.2	0.8	100.0
Numbers		780	10,912	328	27,894	6,080	418	45,950	7,233	795	100,389

<sup>a</sup> Age composition based on Upper Station sockeye escapement.

Table 69. South Olga Lakes (Upper Station) early-run sockeye salmon brood table showing estimated returns from parent escapements by age class.

Brood Year	Escap.	Age												Total Return	Return/ Spawner			
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3	2.4		
1969	22,509	0	317	0	1,406	3,094	281	263	9,979	11,554	0	62	3,516	62	0	0	30,534	1.4
1970	16,168	0	375	188	788	2,889	263	0	1,850	3,269	0	0	1,469	367	0	0	11,458	0.7
1971	32,529	0	0	0	185	1,234	370	0	5,876	15,976	0	0	2,263	0	0	0	25,904	0.8
1972	39,613	0	185	62	1,102	5,693	184	0	3,482	18,977	0	0	8,603	574	208	0	39,070	1.0
1973	26,892	0	0	0	174	522	696	0	3,728	41,006	0	208	7,289	0	0	133	53,756	2.0
1974	35,319	0	0	522	0	26,382	0	0	16,660	38,317	0	0	11,720	133	0	0	93,734	2.7
1975	10,325	0	0	0	0	1,458	208	0	6,393	14,783	0	0	8,738	485	0	0	32,065	3.1
1976	28,567	0	0	0	133	9,722	0	0	10,438	47,090	0	0	27,139	0	0	0	94,522	3.3
1977	26,380	0	0	0	0	32,041	243	0	48,850	94,081	0	0	35,526	634	0	0	211,375	8.0
1978	66,157	0	243	243	1,809	28,948	0	0	32,354	70,735	0	0	19,660	0	37	0	154,029	2.3
1979	53,115	0	0	0	0	4,124	0	0	17,554	65,300	0	46	14,870	38	142	0	102,074	1.9
1980	37,866	0	317	0	2,341	11,937	0	0	4,000	7,165	38	0	7,259	0	25	0	33,082	0.9
1981	77,042	0	0	0	542	2,832	1,498	0	4,370	85,872	0	43	23,861	0	0	0	119,018	1.5
1982	170,610	0	2,472	234	1,006	113,439	781	0	75,684	37,220	0	360	18,131	70	0	0	249,398	1.5
1983	115,890	0	285	1,220	1,181	5,491	1,205	0	11,396	87,555	0	0	41,723	217	0	0	150,273	1.3
1984	96,798	0	109	0	3,443	2,118	66	0	1,792	46,879	0	0	14,103	113	60	0	68,683	0.7
1985	27,408	0	1,476	4	2,865	2,314	22,466	0	6,714	86,949	0	0	42,895	633	64	0	166,380	6.1
1986	100,812	0	35	5,680	449	51,361	936	0	36,048	83,179	60	18	8,248	340	408	0	186,763	1.9
1987	74,747	0	2,134	46	1,022	2,027	3,849	0	726	30,417	27	0	25,242	779	57	0	66,326	0.9
1988	56,724	0	17	0	71	82	852	0	1,607	35,640	210	206	7,282	1,072	0	0	47,038	0.8
1989	64,582	0	450	404	5,823	8,751	6,313	0	5,539	67,810	0	0	34,127	0	0	0	129,217	2.0
1990	56,159	0	1,497	578	0	6,275	3,414	0	19,145	82,269	0	0	6,839	361	6	0	120,384	2.1
1991	50,026	0	407	3,258	20,467	46,391	6,815	0	57,478	131,931	0	0	27,274	0	0	0	294,021	5.9
1992	19,076	52	2,338	223	5,878	5,959	3,583	0	3,435	24,099	0	0	7,268	0	0	0	52,835	2.8
1993	34,852	219	669	605	2,423	5,189	2,741	0	11,812	31,749	0	0	5,168	1,229	0	62	61,866	1.8
1994	37,645	0	229	994	4,887	53,607	1,320	0	7,176	33,104	0	0	17,361	570	0	0	119,248	3.2
1995	41,492	0	185	2,467	5,857	33,691	1,497	360	44,415	44,608	0	492	20,938	689	92	0	155,291	3.7
1996	58,686	0	79	177	2,723	30,487	1,973	0	81,164	51,987	4	25	15,238	281	0	0	184,138	3.1
1997	47,655	0	422	45	0	972	2,438	0	558	11,566	34	0	7,233	795				
1998	30,713	0	0	6	0	145	6,264	0	418	45,950	0							
1999	36,521	0	0	2,598	328	27,894	6,080											
2000	55,761	0	780	10,912														
2001	66,795	0																
2002	36,802																	
2003	76,175																	

10-Year Average (1987-1996): 123,036

2.6

Table 70. South Olga Lakes (Upper Station) late-run sockeye salmon estimated catch by area, escapement, and estimated total run by age class, 2003.

Sample Size	Age													Total	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	Total		
<i>Estimated Catch by Area</i>															
Cape Alitak and Humpy-Deadman Sections															
Percent	2.8	4.5	0.8	6.6	13.8	3.9	12.6	48.6	0.3	0.4	2.7	3.1	100.0		
1,958	Numbers	1,369	2,215	370	3,201	6,731	1,880	6,161	23,735	130	202	1,299	1,500	48,791	
Moser, Olga, and Alitak Bay Sections															
Percent	2.5	0.0	0.2	23.1	0.2	0.3	66.8	0.0	0.0	2.5	4.4	0.0	100.0		
2,981	Numbers	4,043	0	278	37,709	319	503	108,992	0	0	4,002	7,209	0	163,054	
<i>Total Estimated Upper Station Late Run Catch</i>															
Percent	2.6	1.0	0.3	19.3	3.3	1.1	54.4	11.2	0.1	2.0	4.0	0.7	100.0		
	Numbers	5,412	2,215	648	40,910	7,049	2,383	115,153	23,735	130	4,203	8,507	1,500	211,845	
<i>Upper Station Late Run Escapement</i>															
Percent	14.4	1.5	0.0	19.6	4.4	0.4	52.1	0.8	0.0	2.1	4.5	0.0	100.0		
795	Numbers	29,021	2,982	24	39,405	8,890	898	104,737	1,590	0	4,298	9,047	0	200,894	
Total Run															
Percent	8.3	1.3	0.2	19.5	3.9	0.8	53.3	6.1	0.0	2.1	4.3	0.4	100.0		
	Numbers	34,433	5,197	672	80,315	15,939	3,281	219,890	25,325	130	8,502	17,554	1,500	412,739	

Table 71. South Olga Lakes (Upper Station) late-run sockeye salmon brood table showing estimated returns from parent escapements by age class.

Brood Year	Escap.	Age														Total Return	Return/ Spawner	
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	3.1	1.4	2.3	3.2	3.3	2.4		
1970	36,833	0	675	12,594	9,969	81,964	4,431	0	9,161	30,644	632	0	6,171	1,424	0	0	157,663	4.3
1971	95,150	450	5,538	21,045	632	10,109	1,895	0	16,613	40,346	0	0	8,105	901	0	0	105,635	1.1
1972	68,351	3,323	10,425	11,689	17,563	39,397	3,797	0	8,105	58,539	0	0	4,027	0	0	0	156,866	2.3
1973	67,826	1,580	1,424	2,373	1,801	10,807	2,702	0	6,041	77,528	0	0	7,926	0	0	0	112,182	1.7
1974	251,234	0	0	23,416	0	107,734	1,007	0	22,645	294,387	0	0	7,680	7,040	0	0	463,908	1.8
1975	74,456	901	3,021	0	0	61,142	1,132	0	36,479	76,157	0	0	5,228	0	0	0	184,060	2.5
1976	48,650	0	10,190	0	36,479	38,399	2,560	0	11,501	141,154	0	0	10,336	940	0	0	251,559	5.2
1977	49,001	0	640	0	3,137	52,279	1,046	0	66,714	312,897	0	0	9,732	0	0	0	446,444	9.1
1978	38,126	0	82,601	1,046	90,205	134,367	4,698	0	55,146	217,342	0	0	26,755	2,638	0	0	614,798	16.1
1979	134,579	0	31,947	0	63,256	71,366	0	0	103,020	339,950	0	736	10,850	360	280	0	621,765	4.6
1980	77,718	0	124,890	0	56,178	35,951	2,131	0	21,758	55,472	399	0	16,555	965	223	0	314,522	4.0
1981	118,900	0	1,294	0	17,853	157,249	12,280	1,007	149,158	345,506	0	0	14,809	0	0	879	700,035	5.9
1982	306,161	0	644,017	5,129	324,600	364,312	5,029	117	92,824	231,963	0	0	5,168	2,042	0	0	1,675,201	5.5
1983	179,741	4,867	182,514	0	135,177	23,242	1,682	0	53,195	92,799	0	0	30,036	0	1,488	0	525,000	2.9
1984	239,608	3,012	37,733	528	89,721	187,451	5,064	0	21,543	224,033	0	0	23,712	4,642	0	0	597,438	2.5
1985	408,409	2,313	562,757	1,958	309,775	34,924	12,374	0	40,759	179,839	0	578	45,289	6,140	0	0	1,196,706	2.9
1986	367,922	1,449	72,415	1,953	94,380	291,815	5,610	678	116,039	451,917	0	0	17,721	1,579	1,289	6	1,056,851	2.9
1987	156,274	0	68,016	495	113,821	12,899	127	0	17,053	104,995	0	225	27,470	15,072	39	0	360,212	2.3
1988	247,647	0	9,222	216	27,793	76,583	1,000	0	71,330	80,102	177	133	4,037	1,244	0	0	271,836	1.1
1989	221,706	401	169,158	1,125	85,530	83,807	12,864	142	53,928	184,067	308	0	21,693	0	0	0	613,023	2.8
1990	198,287	1,432	56,992	3,904	115,907	27,747	7,728	444	17,591	237,284	0	0	4,315	0	67	0	473,411	2.4
1991	242,860	6,744	51,810	4,858	163,283	73,541	6,484	160	44,507	712,676	31	0	20,546	0	0	0	1,084,640	4.5
1992	199,067	4,913	61,018	1,108	15,733	58,923	12,611	79	6,302	279,349	0	0	7,189	156	192	26	447,599	2.2
1993	187,229	5,186	46,015	5,688	114,817	35,842	45,256	444	10,769	199,820	191	278	27,883	5,350	0	0	497,539	2.7
1994	221,675	1,417	10,206	6,322	23,167	90,488	17,439	44	25,603	293,322	80	0	6,069	968	0	0	475,125	2.1
1995	203,659	233	3,020	3,340	3,349	179,562	24,492	0	13,017	251,855	0	254	14,264	307	247	20	493,960	2.4
1996	235,727	277	1,972	6,536	1,335	35,606	4,057	0	15,478	88,856	121	1	4,856	2,282	0	1,500	162,877	0.7
1997	230,793	0	347	0	916	2,842	11,901	0	1,932	129,206	1,984	130	8,502	17,554				
1998	171,214	0	0	89	0	2,511	13,979	0	3,281	219,890	25,325							
1999	210,016	0	279	2,323	672	80,315	15,939											
2000	176,783	96	34,433	5,197														
2001	74,408	0																
2002	150,349																	
2003	200,894																	

10-Year Average (1987-1996): 488,022 2.3

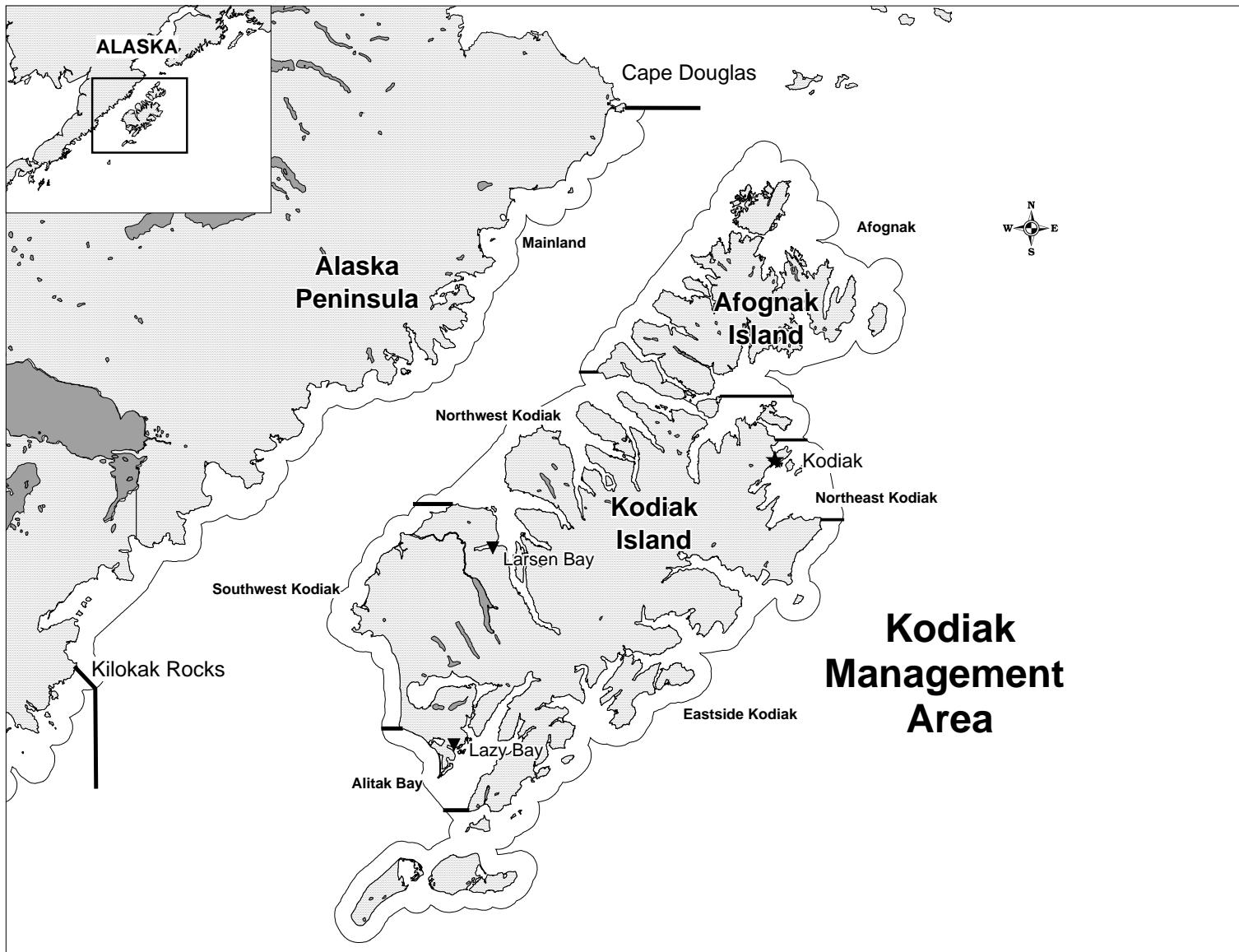


Figure 1. Kodiak Management Area commercial salmon fishing districts and processing facility locations, 2003.

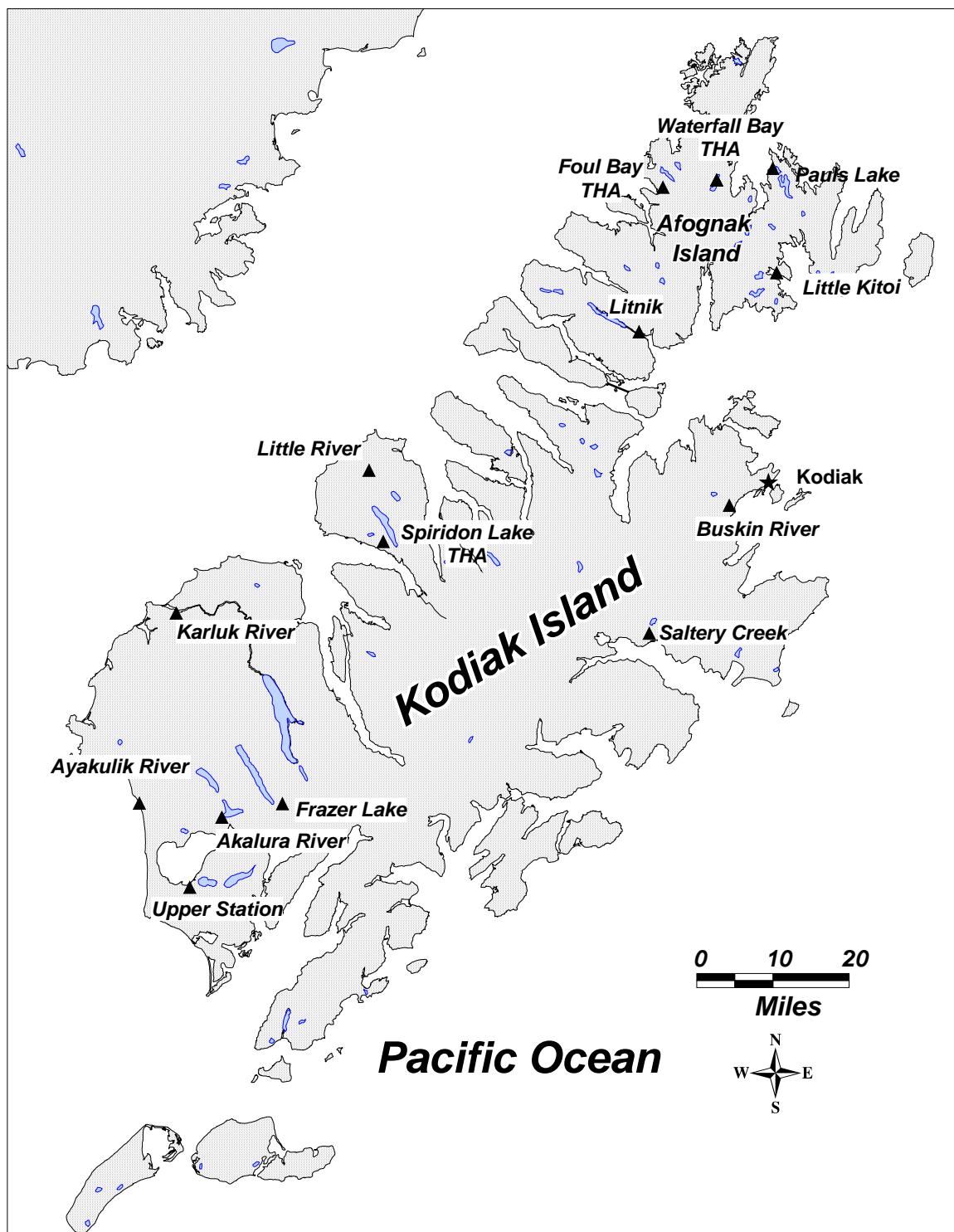


Figure 2. Salmon escapement and terminal harvest sampling locations in the Kodiak Management Area, 2003.

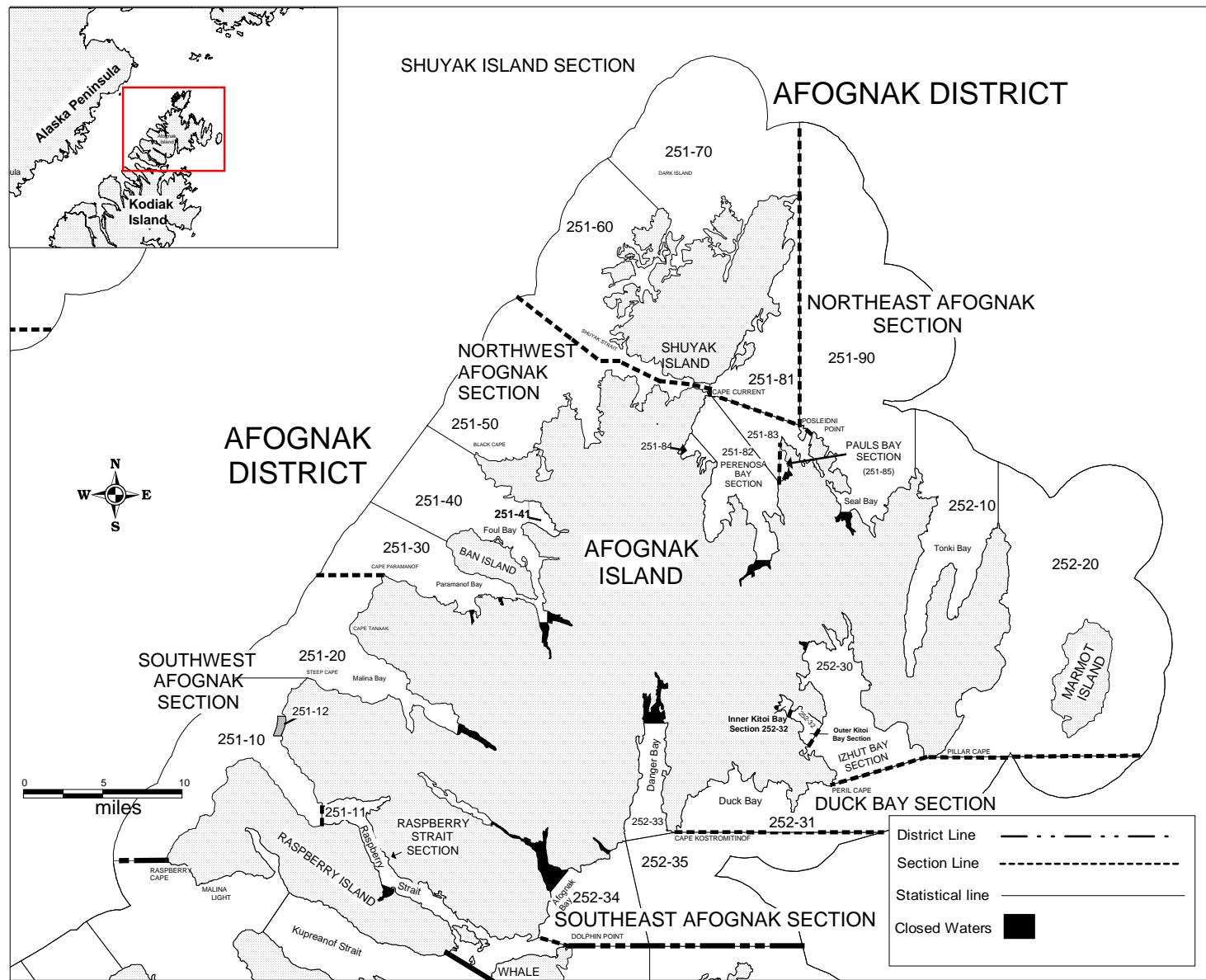


Figure 3. Afognak District commercial salmon fishing sections and statistical areas, 2003.

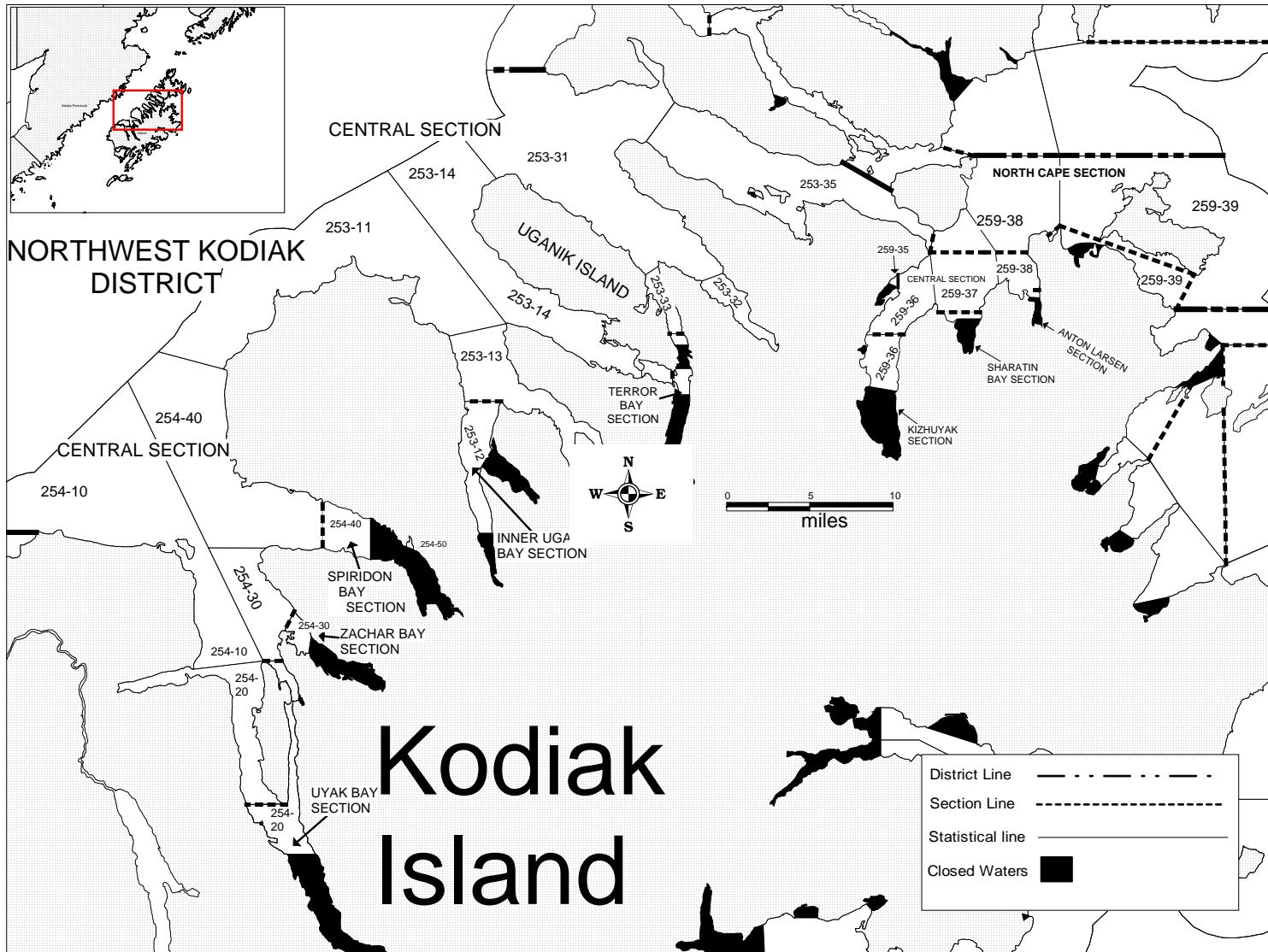


Figure 4. Northwest Kodiak District commercial salmon fishing sections and statistical areas, 2003.

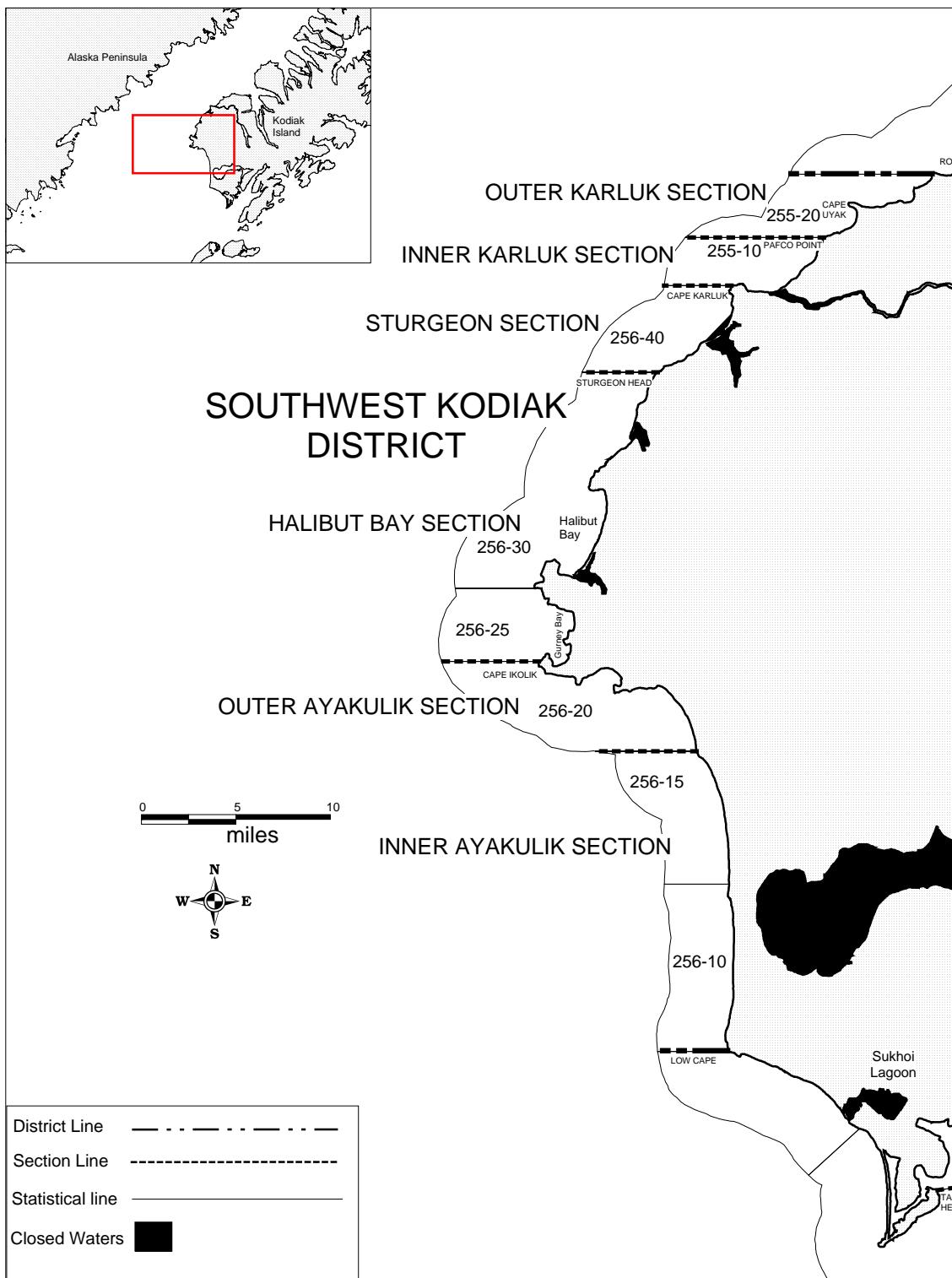


Figure 5. Southwest Kodiak District commercial salmon fishing sections and statistical areas, 2003.

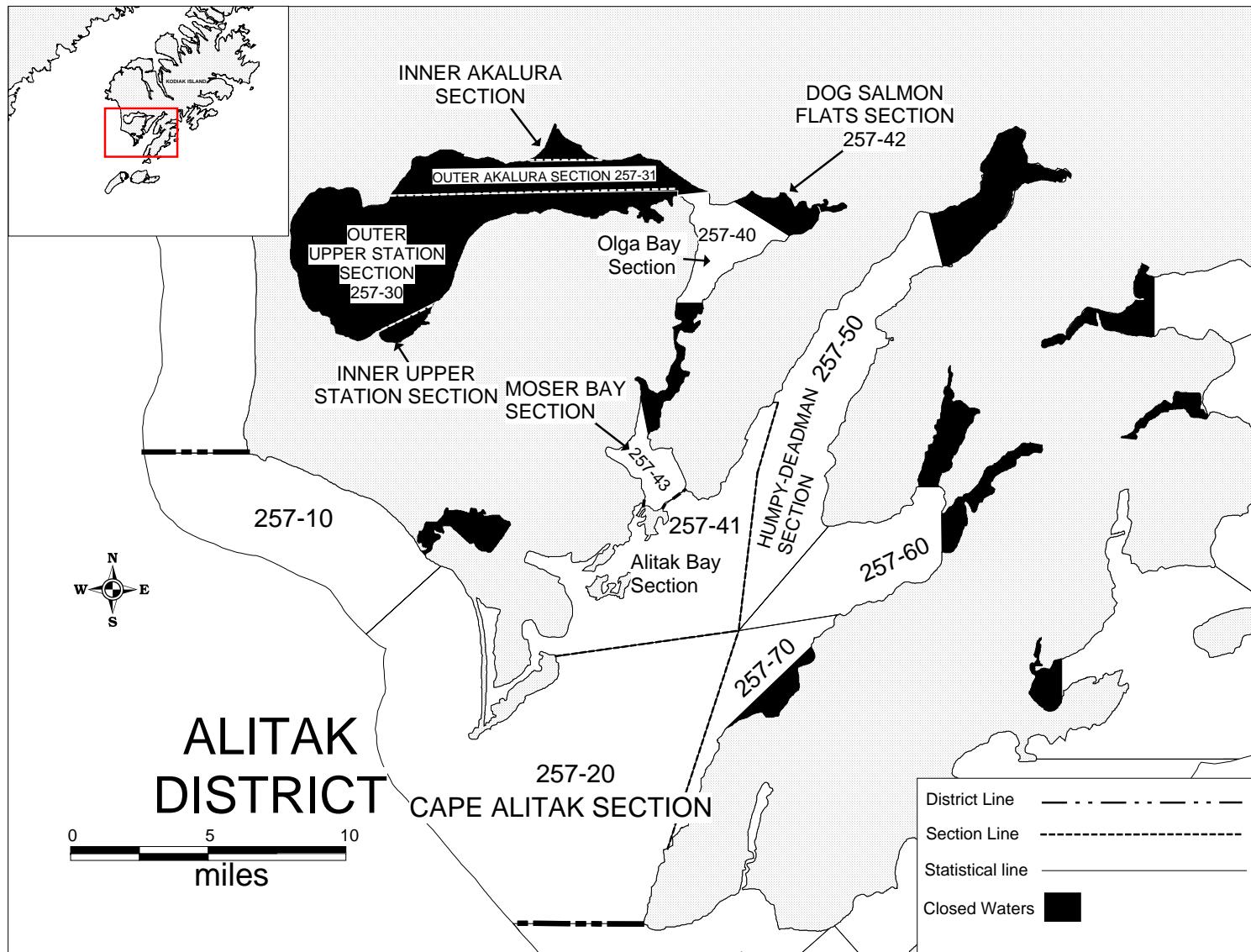


Figure 6. Alitak Bay District commercial salmon fishing sections and statistical areas, 2003.

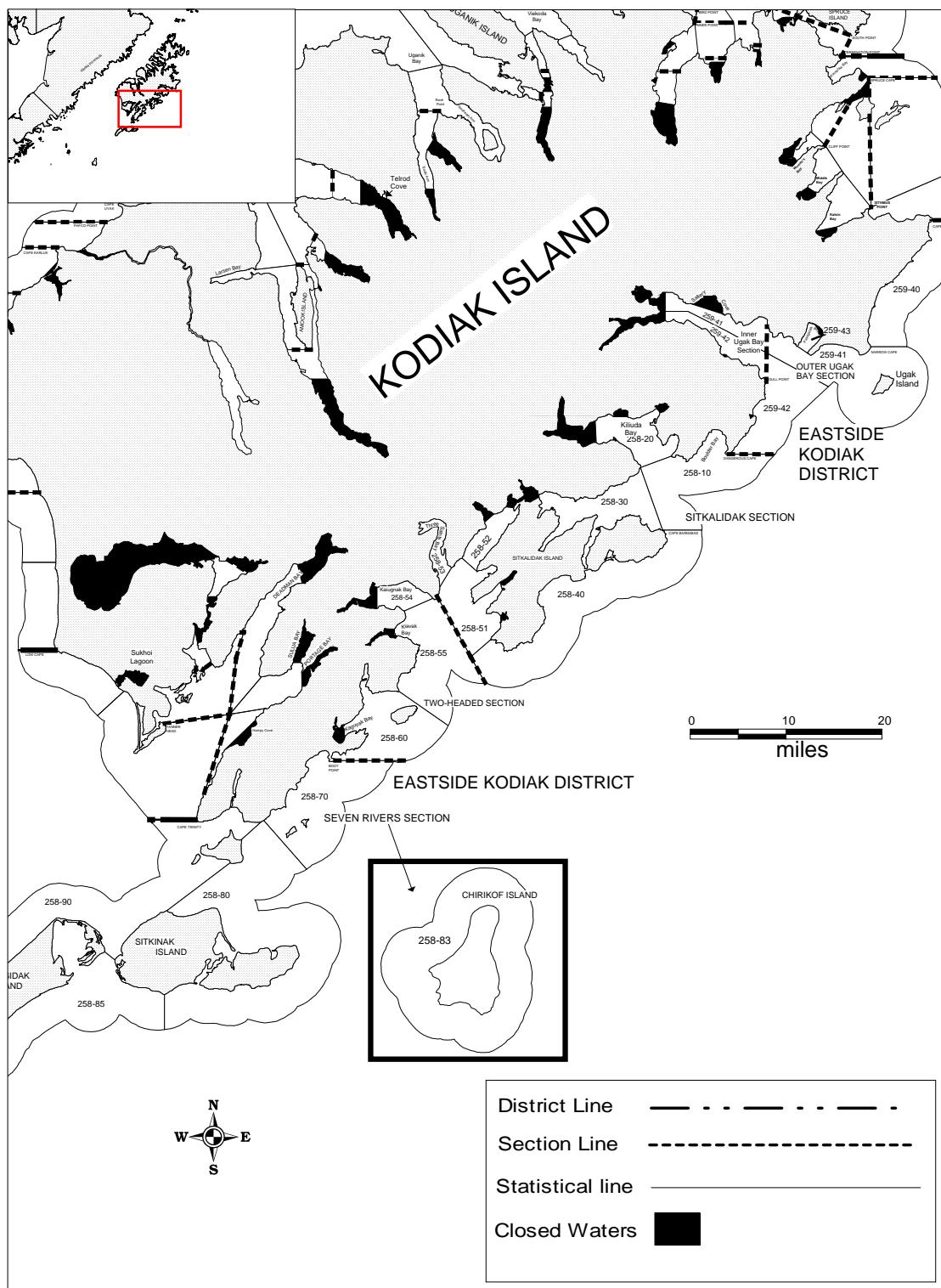


Figure 7. Eastside Kodiak District commercial salmon fishing sections and statistical areas, 2003.

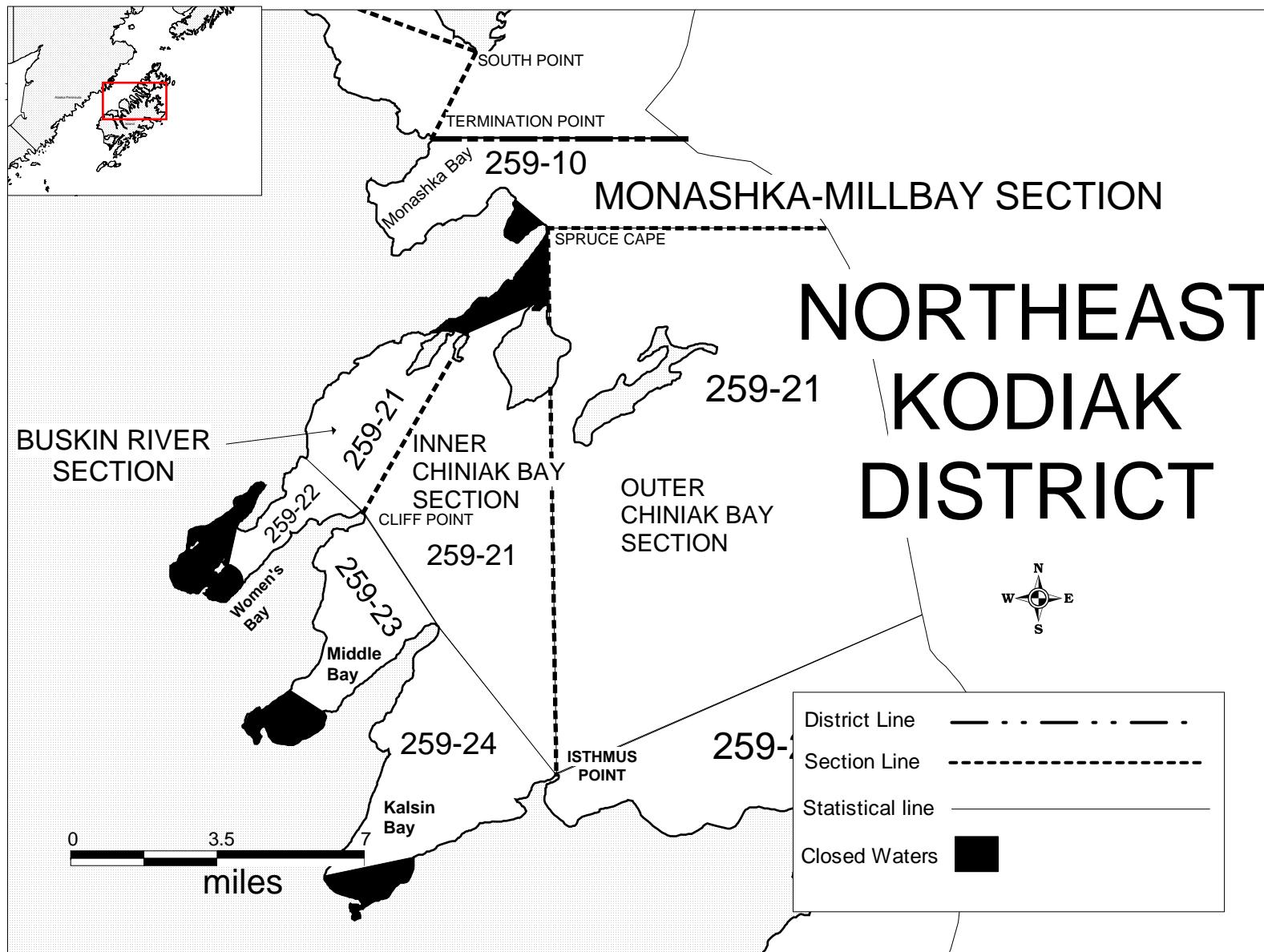


Figure 8. Northeast Kodiak District commercial salmon fishing sections and statistical areas, 2003.

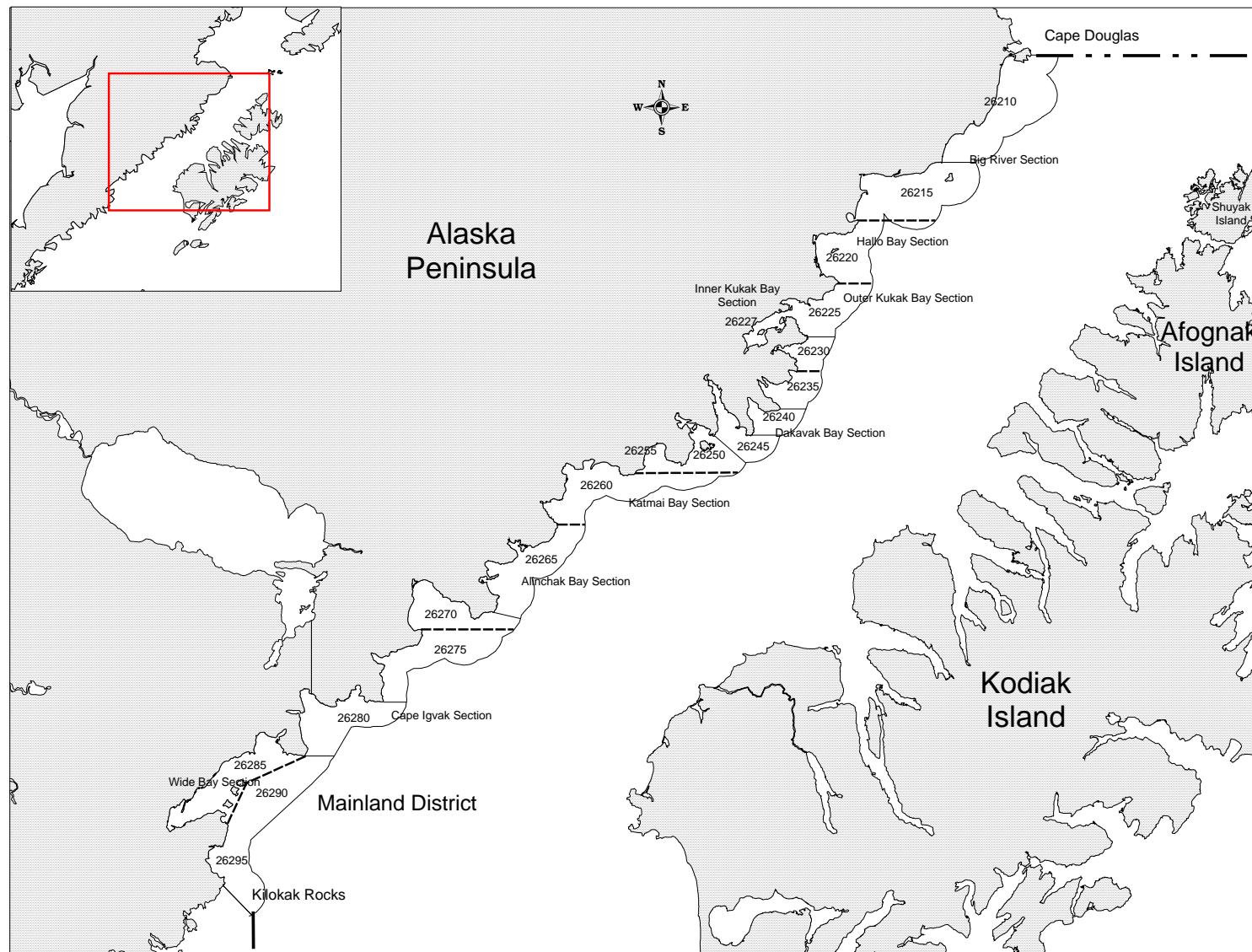


Figure 9. Mainland District commercial salmon fishing sections and statistical areas, 2003.

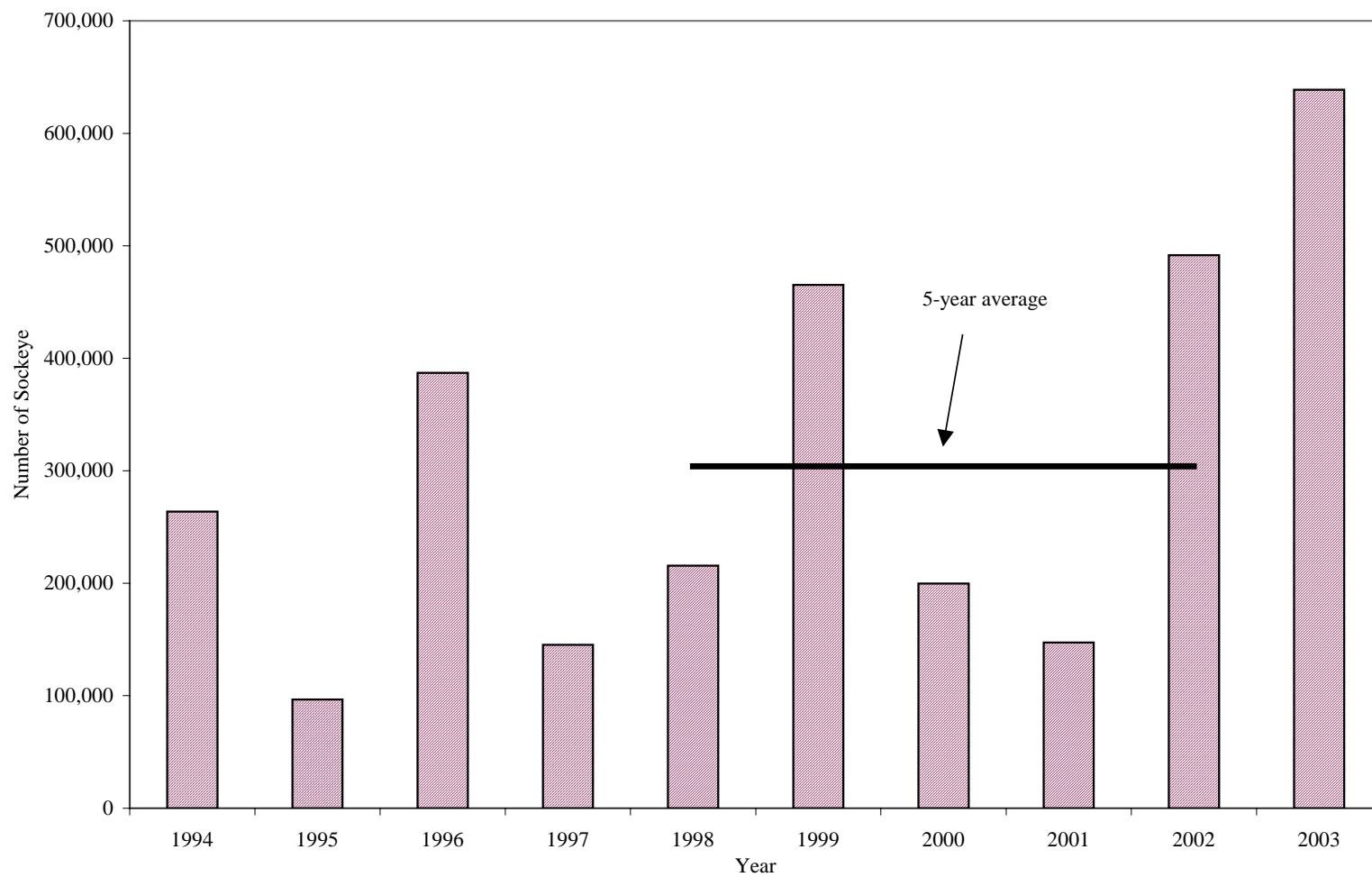


Figure 10. Spiridon Lake sockeye salmon catch (run) estimates, 1994-2003, and the recent 5-year average estimated run (1998-2002).

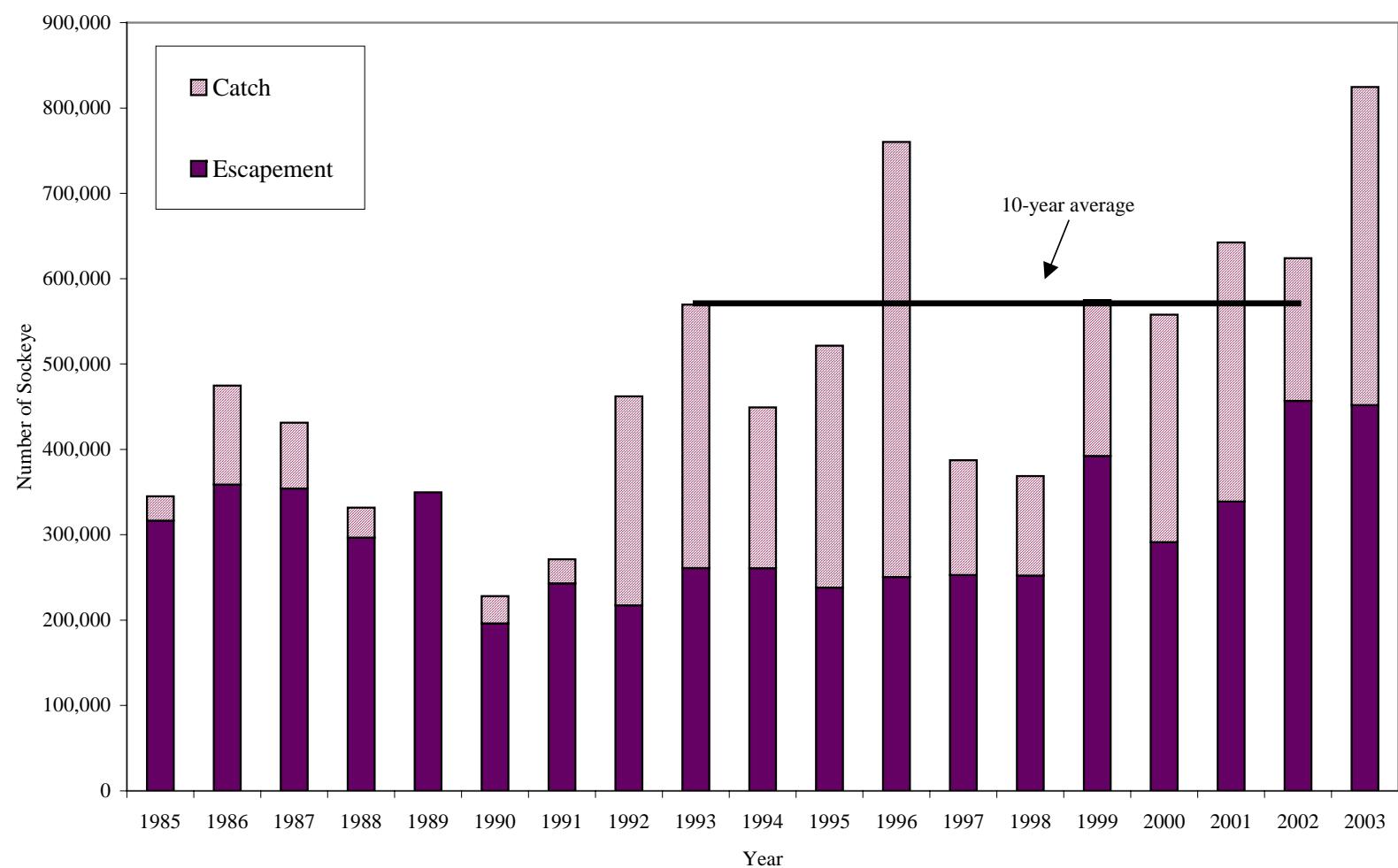


Figure 11. Karluk Lake early-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).

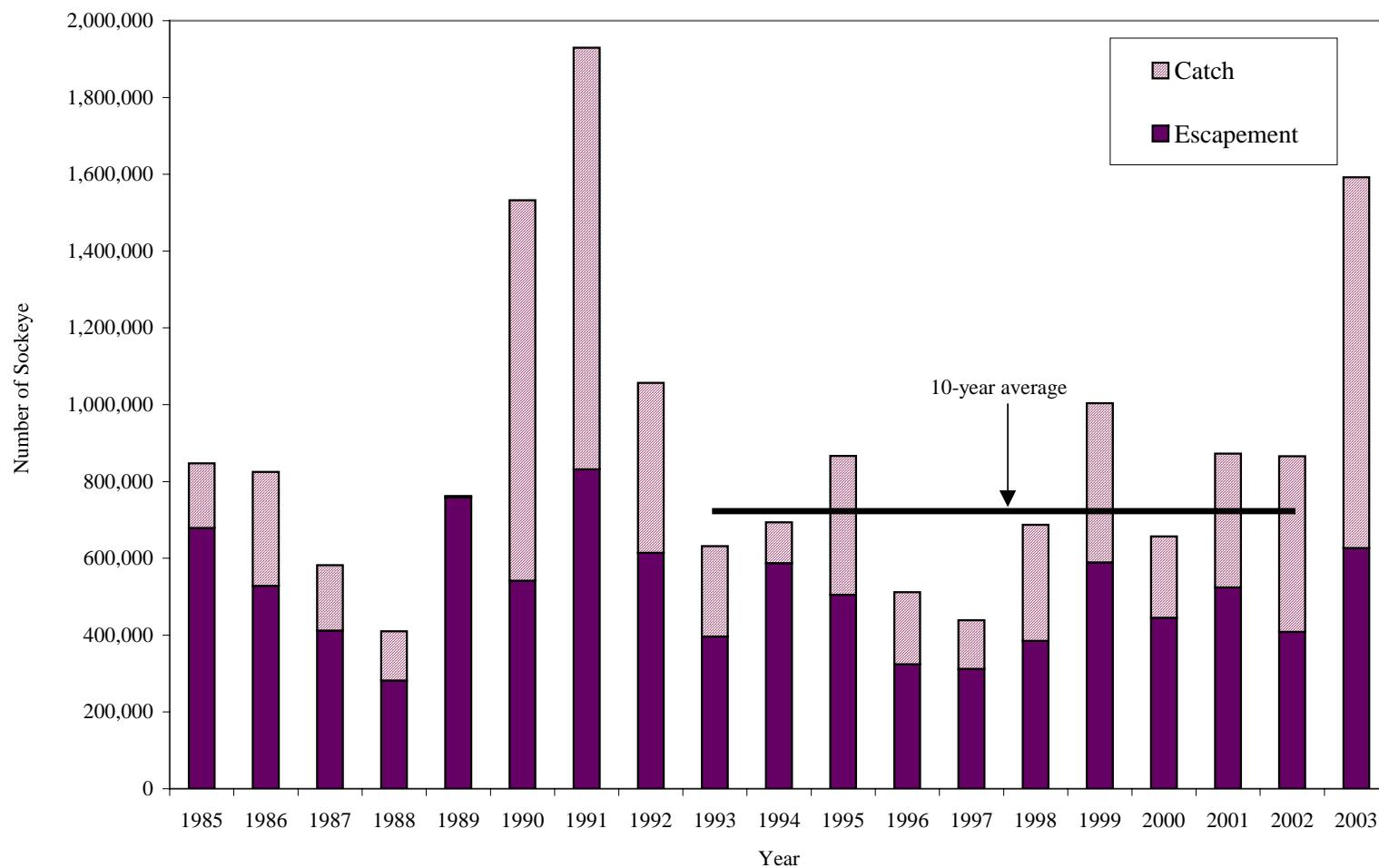


Figure 12. Karluk Lake late-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).

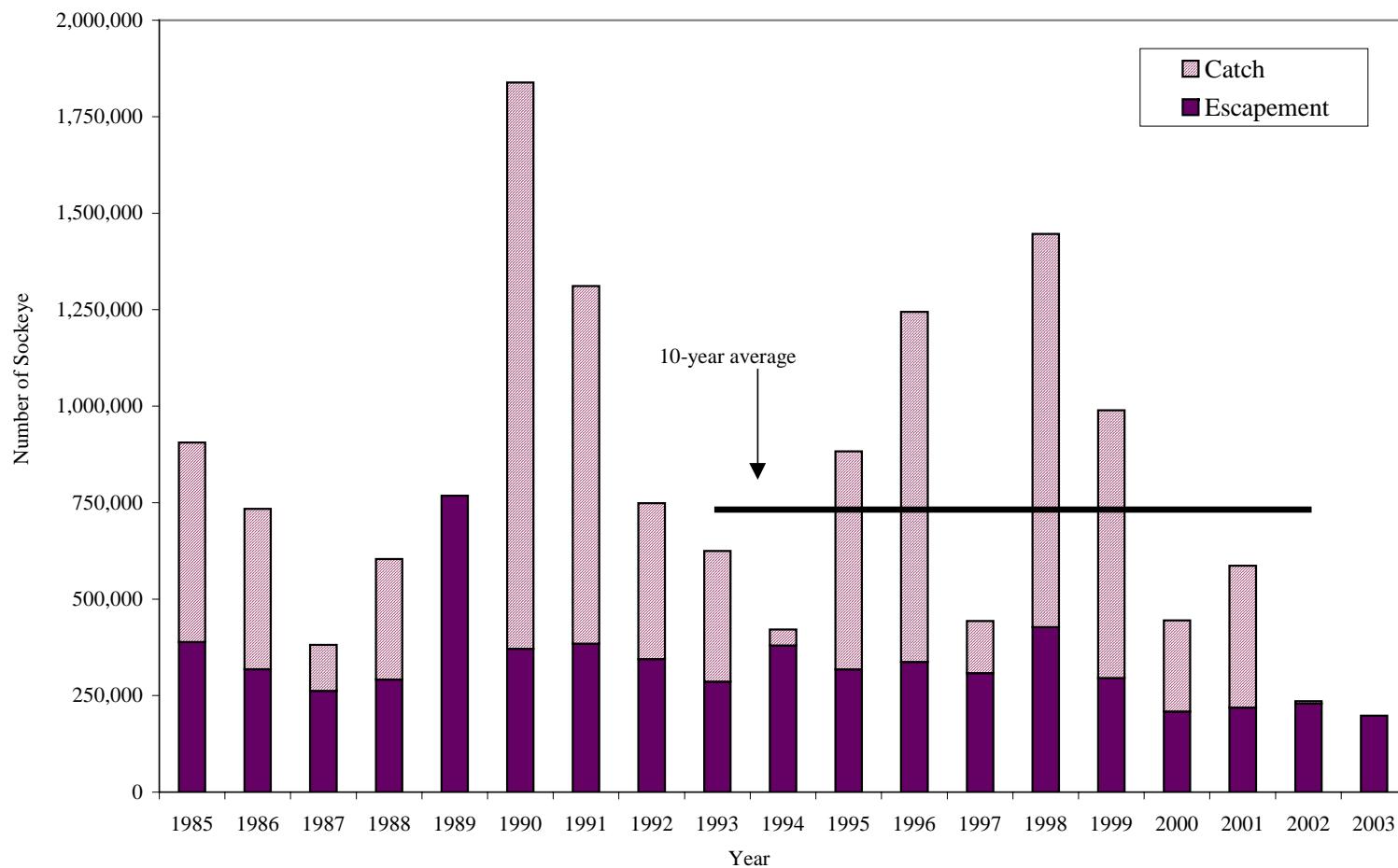


Figure 13. Ayakulik River (Red L.) sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).

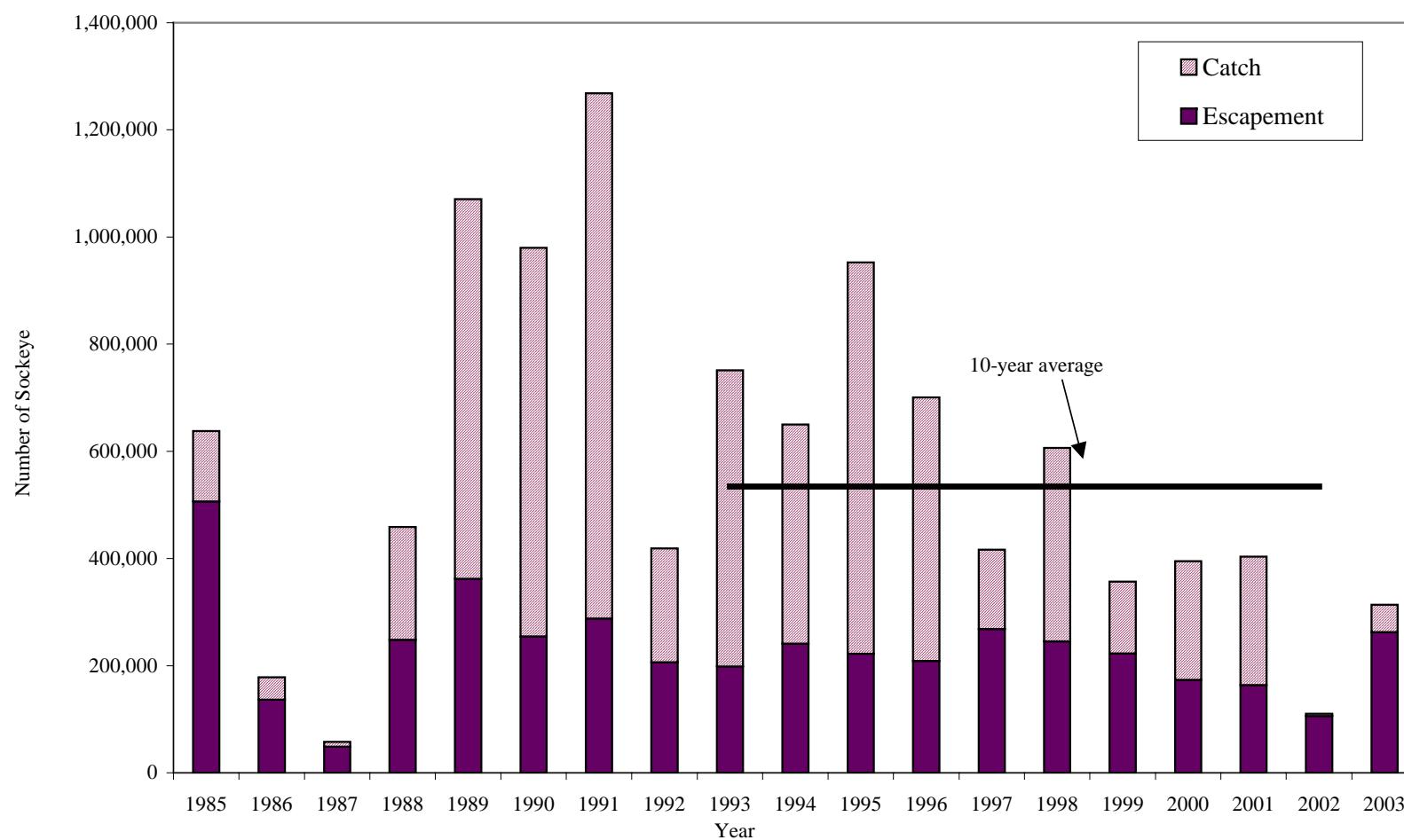


Figure 14. Frazer Lake sockeye salmon escapement (Dog Salmon weir counts), catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).

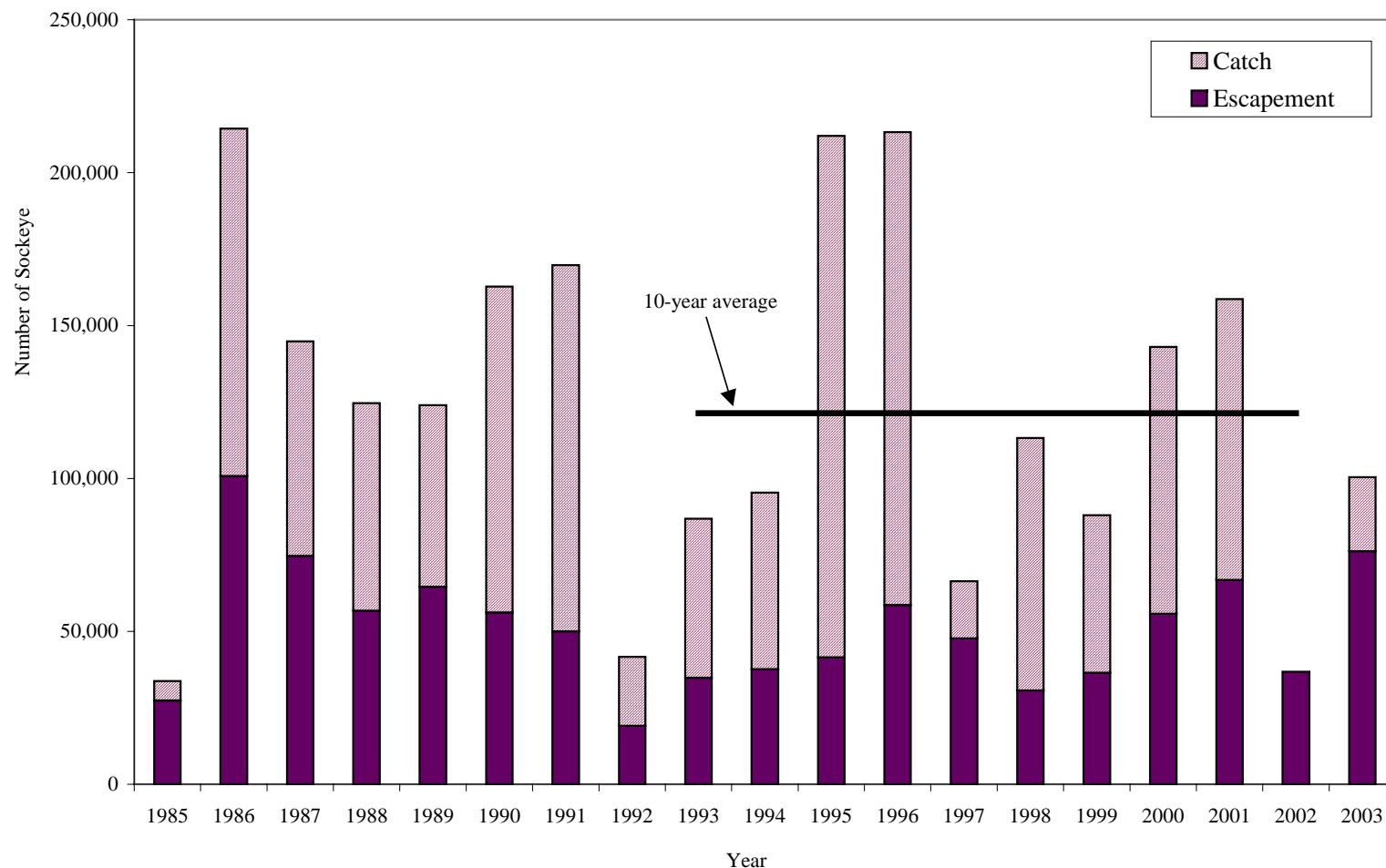


Figure 15. South Olga Lakes (Upper Station) early-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).

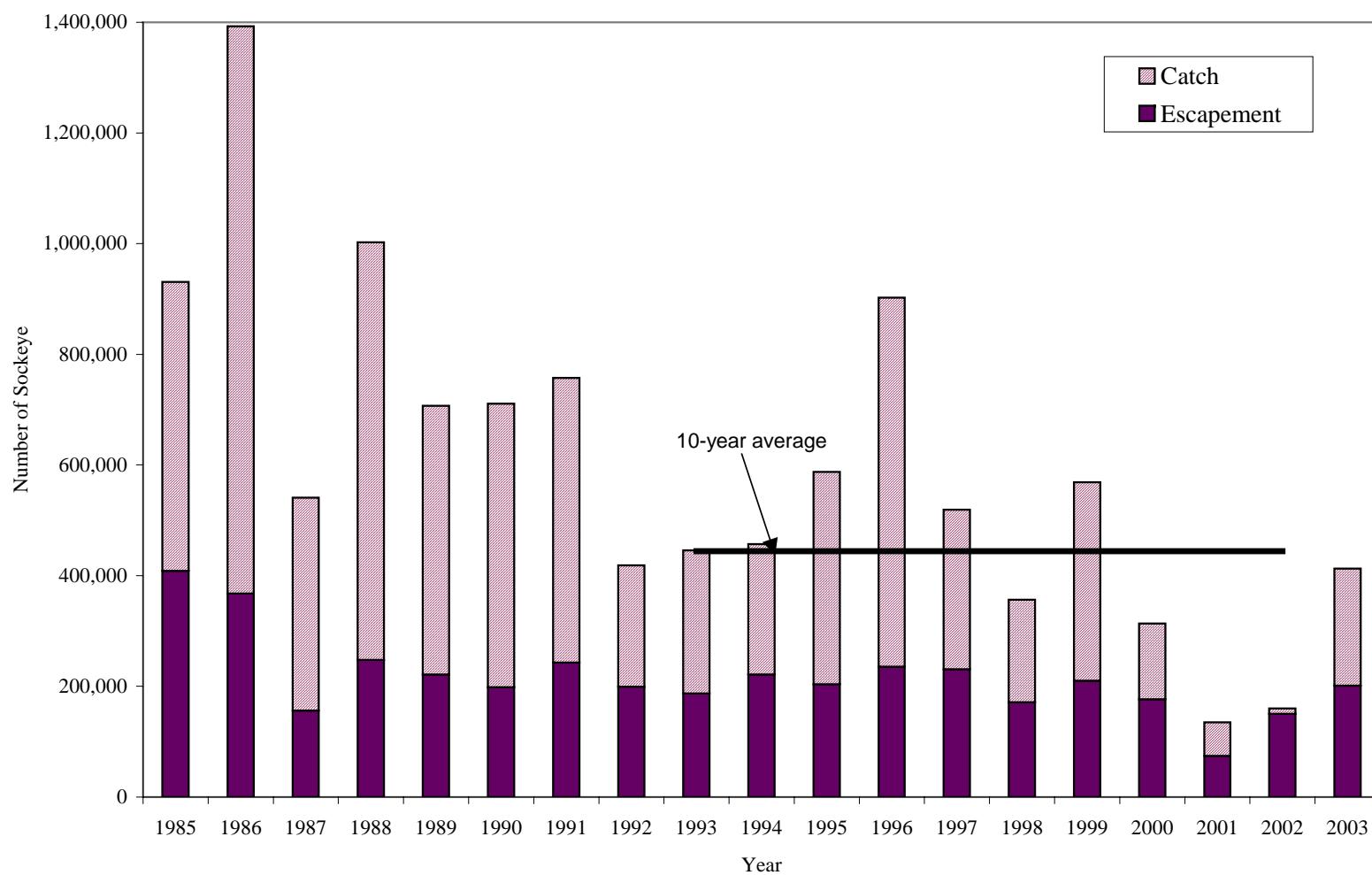


Figure 16. South Olga Lakes (Upper Station) late-run sockeye salmon escapement, catch, and run estimates, 1985-2003, and the recent 10-year average estimated run (1993-2002).

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